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NORWAY/UNITED STATES DESIGN PROTECTIVE AIRCRAFT SHELTER (PAS) QUANTITY-DISTANCE PROGRAM 1/3-SCALE TEST SERIES

Volume IV of V Appendix C: PAS-2

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New Mexico Engineering Research Institute The University of New Mexico Albuquerque, NM 87131-1376



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Final Report

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Advanced Weapons and Survivability Directorate
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This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

AARON PEREA

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Project Officer

BRENDAN B. GODFREY, ST

Director, Advanced Weapons and Survivability Directorate

PREFACE

This report was prepared by the New Mexico Engineering Research Institute (NMERI), The University of New Mexico, under Subtask 2.33 of Contract F29601-87-C-0001, with the Phillips Laboratory, Kirtland Air Force Base, New Mexico. The Norwegian/US Aircraft Shelter Quantity-Distance Program under which this test program was conducted was cosponsored by the United States and the Kingdom of Norway. The 1/3-scale aircraft shelter models were designed, constructed, instrumented, and tested by NMERI.

The Phillips Laboratory Program Manager and Subtask Officer for this subtask was Capt Mike Ulshafer of PL/WSB. The Phillips Laboratory Technical Coordinator was Aaron Perea. Arfin Jenssen was the Norwegian Technical Advisor/Coordinator. Dr. Edward H. Bultmann, Jr., of NMERI was the Principal Investigator for the subtask. Bruce Schneider of NMERI was the Alternate Principal Investigator for this subtask. Jon A. Kirst was the Instrumentation Engineer, Curtis Burnett was the Lead Construction (Field) Technician for this subtask. Jesse Martinez was the Lead Instrumentation Technician.

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	e current criteria for explosiv		
U.S. aircraft shelter design	is, which differ significantly	in structural details fro	m the Norwegian version.
The program included four	r tests of 1/3-scale models of	the Norwegian shelter	. Charges varying from 3.7 to
			ressures were measured in the
			and accelerometers were used
	oris trajectories and velocities		
areas surrounding the mod	•		
		of the results of each te	est with selected experimental
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events.	•	•	
These data will be provide	ed to those U.S., Norwegian,	and NATO agencies re	esponsible for establishing
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1.0 PAS-2 ELECTRONIC INSTRUMENTATION, DATA PLOTS

The PAS-2 measurements are listed in Table C-1. The locations of the various onstructure measurements are shown in Figures C-1 through C-8. PAS-2 data plots are presented in sequential order by measurement number. The measurement number is centered below the plot; that is, PAS-2 *** 0101 *** refers to measurement number (MN) 0101. A measurement may have several plots of different vertical scales or time domains; for example, MN 0101 has both 50 and 100 ms plots.

Table C-1. List of measurements, PAS-2.

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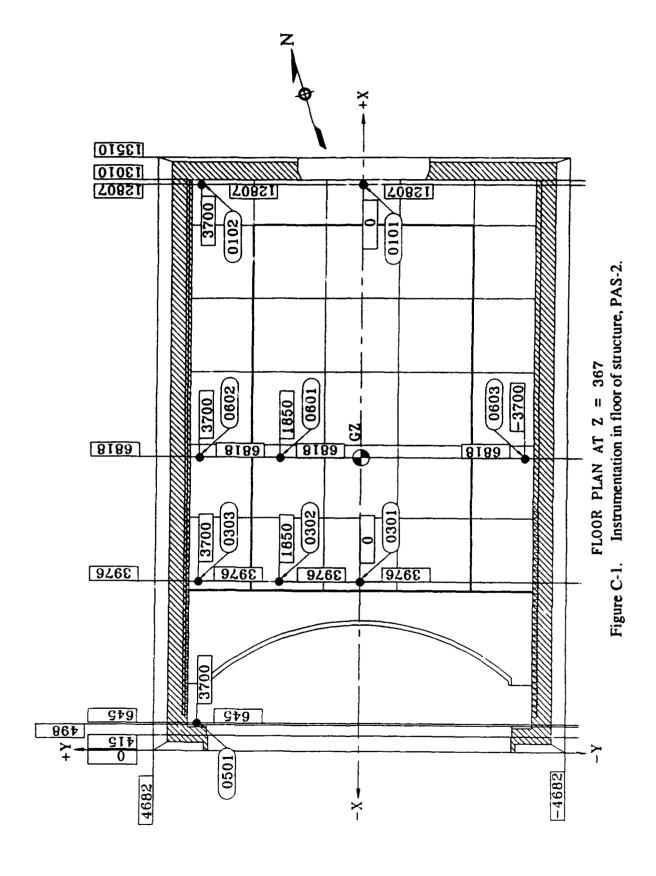
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KULITE	KULITE	1.724	1.724	1.724	1.724	1.724			20	ENDEVCO						
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RF93 OACE J.K.	RF93 OACE J.K.	6.895	6.895	6.895	6.895	6.895		Ψ,	9	ENDEVCO						
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XT-190 34.74 kPa PRESSURE (1491-2-46) U6-16 KULITE	XT-190 34.74 kPa PRESSURE (1491-2-46) U6-16 KULITE	5.171	5.171	5.171	5.171	5.171			8	KULITE						
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XT-190 34.74 kPa PRESSURE (4363-5-139) X18-22 QAGE J.K. ENDEVCO 8510B 13.79 kPa PRESSURE RF87 RF87 RF87	XT-190 34.74 kPa PRESSURE (4363-5-139) X18-22 QAGE J.K. ENDEVCO 8510B 13.79 kPa PRESSURE RF87						3.447		8	KULITE						
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8510B 13.79 kPa PRESSURE	8510B 13.79 kPa PRESSURE	1.724	1.724	1.724	1.724	1.724	1.724		20	ENDEVCO						
		FF 6818 24000 350 Z kPa	24000 350 Z	350 Z	Z	\Box	kPa	1	%	8510B	13.79 kPa	PRESSURE	RF87			
		# = Distance in millimeters	ice in millimeters	millimeters	Prs											
		FF = Free Field	ield													
		SC = Shelter Ceiling	r Ceiling	1ng												

Table C-1. Continued.

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PAGE 4 OF 8 PAGES			ITCH		3	8	8						8				3														
OME 22 MAY 92		TRANSDUCER	SERIAL NUMBER		(4263-5-140) Y18-26	(RP91)	(4363-5-151) X18-26		C93M		RF77		(4363-5-184) X18-31		WC95		(4363-5-137) K18-21		RF86		CA90A		AR93F		BW72A		AR80F				
	KIRST	TRANSDUCER	TYPE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		ACCELEROMETER		ACCELEROMETER		ACCELEROMETER		ACCELEROMETER				
	16	5.0	RANGE		34.74 kPa		34.74 kPa		13.79 kPa		34.74 kPa		13.79 kPa		13.79 kPa		34.74 kPa		13.79 kPa		2000 g		250 g		2000 g		250 g				
		TRANSDUCER	MODEL	KULITE	XT-190	KULITE	XT-190	ENDEVCO	8510B	ENDEVCO	8510B	KULITE	XT-190	ENDEVCO	8510B	KULITE	XT-190	ENDEVCO	8510B	ENDEVCO	2264A	ENDEVCO	2260A	ENDEVCO	2264A	ENDEVCO	2260A				
1		CONF	LEVEL	09	%	20	%	33	%	20	%	63	%	<i>L</i> 9	%	19	%	20	%	20	%	100	%	20	%	8	%				
ENT LIST		PRED	MAX	5.171	kPa	3.447	kPa	0.689	kPa	6.895	kPa	3.447	kPa	1.379	kPa	6.895	kPa	1.724	kPa	1000	8	250	500	200	60	150	8				
MEASUREM		SENS	AXIS		Z		2		Z		Z		2		Z		2		2		Z		>		₽		Ţ				
MEAS			28		350		350		350		350		350		350		350		350		2987		2987		2680		2680	eters			
	PAS-2	LOCATION	YR		8000		10800		21000		0		0		0		-8000		-24000		0		0		1837		1837	# = Distance in millimeters	P	Roof	
		200	×		17041		19841		21000		19000		23000		37000		6818		6818		3976		3976		3976		3976) stance	= Free Field	Structure Roof	
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	TEST EVENT	MEAS	Š.		0712-2		0713-2		0714-2		0715-2		0716-2		0717-2		0718-2		0719-2		1301-2		1302-2		1303-2		1304-2	NOTES:			

Table C-1. Concluded.

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ONT 22 MAY 92		TRANSDUCER	SERIAL NUMBER		CA65A		AQ95F		BY90B		KTSS		CA20B		KA17		BT06A		KA38	=	A/N		N/A		N/A		N/A				
		TRANSDUCER	TYPE		ACCELEROMETER		ACCELEROMETER		ROMETER		ACCELEROMETER		ACCELEROMETER		ROMETER		ACCELEROMETER		ACCELEROMETER		GAGE		GAGE		GAGE		GAGE				
	KIRST	TRAK			ACCELER		ACCELER		5000 g ACCELEROMETER		ACCELE		ACCELE		1000 B ACCELEROMETER		ACCELE		ACCELE		STRAIN		STRAIN		TRAIN		STRAIN				
	IE	r.	RANGE		2000 g		250 g		5000 g		1000 g		5000 g		1000 g		5000 g		1000 g	1	+/-20000 msn		+/-20000 msn		+/-20000 msn		SG159-11-10-6S +/-20000 msn				
		TRANSDUCER	1300H	ENDEVCO	2264A	ENDEVCO	2260A	ENDEVCO	2264A	ENDEVCO	2262C	ENDEVCO	2264A	ENDEVCO	2262C	ENDEVCO	2264A	ENDEVCO	2262C	AILTECH	SG159-11-10-6S	AILTECH	SG159-11-10-6S	AILTECH	SG159-11-10-6S	AILTECH	SG159-11-10-6S	rains			
LIST		CONF	ונמנו	20	%	09	%	02	%	20	%	20	%	20	%	0\$	%	20	%	25	%	25	%	22	%	25	%	msn = microstrains			
MENT		PREO	MAX	200	g	150	g	3500	8	200	g	1500	8	300	8	1000	g	250	8	2000	msn	2000	msn	2000	msn	2000	msn	: US			
UREM		SENS	AXIS		R2		T2		7		Y		R1		TI		R2		77		2		Z		7		Z				
MEASURE			28		1759		1759		2987		2987		2680		2680		1759		1759		1475		1475		1475		1475	Ineters			
	PAS-2	LOCATION	Υ×		3514		3514		0		0		1837		1837		3514		3514		0		0		0		0	in mill	loof		
		LOCK	*		3976		3976		6818		6818		6818		6818		6818		6818		415		415		498		498	= Distance in millimeters	SR = Shelter Roof	FO = Front Door	
			6EN		SR		SR		SR		SR		SR		SR		SR		SR		E		£		E		Œ) #	85	F0 = 4	
	TEST EVENT	MEAS	Š.		1305-2		1306-2		1601-2		1602-2		1603-2		1604-2		1605-2		1606-2		3401-2		3402-2		3403-2		3404-2	NOTES:			



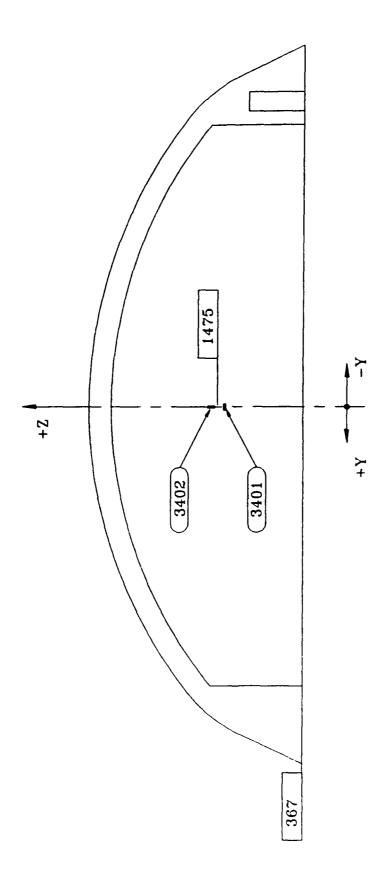


Figure C-2. Instrumentation on outside of front door at X = 415, PAS-2.

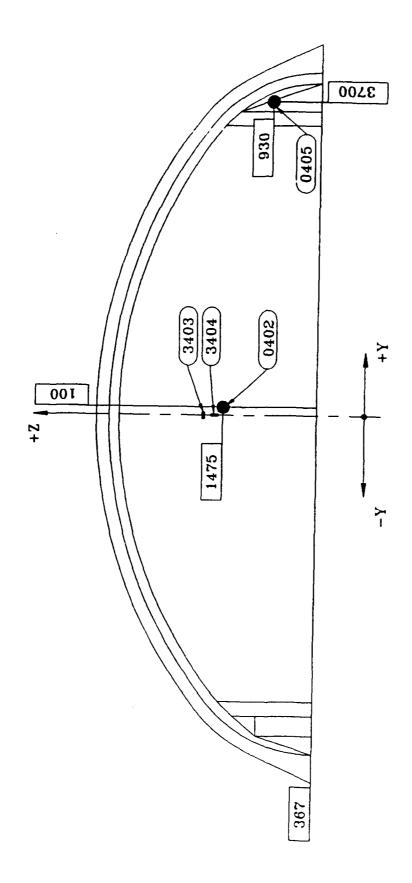


Figure C-3. Instrumentation on inside surface of front door at X = 498, PAS-2.

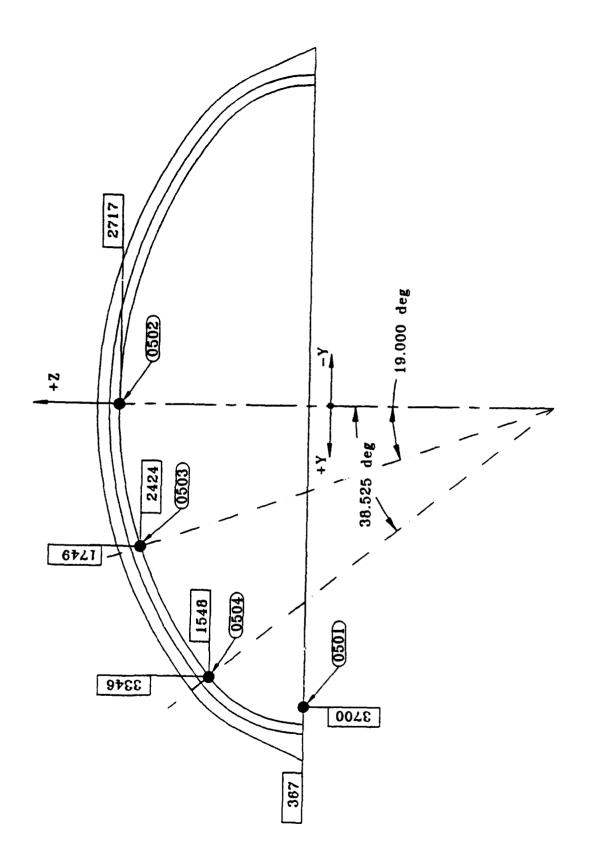


Figure C-4. Instrumentation on arch at X = 645, PAS-2.

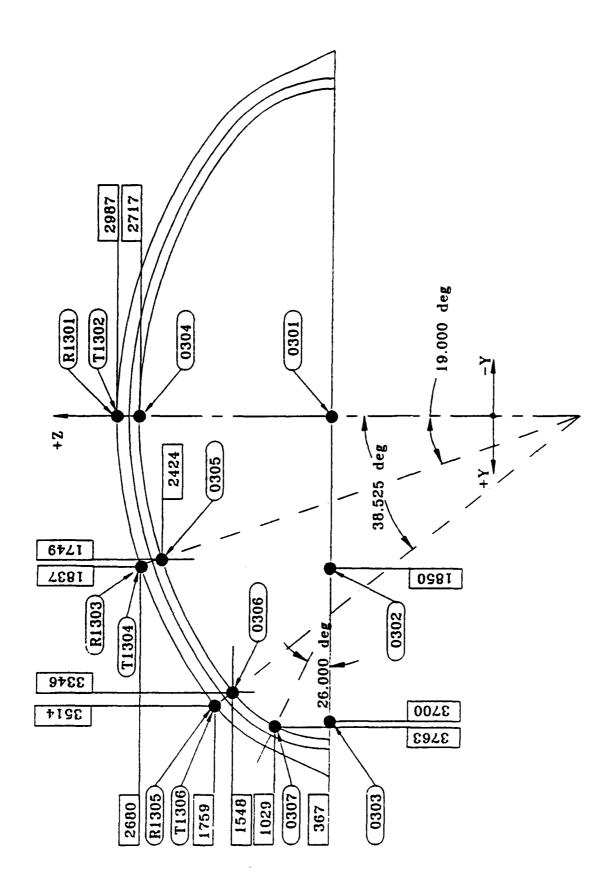


Figure C-5. Instrumentation on arch at X = 3976, PAS-2.

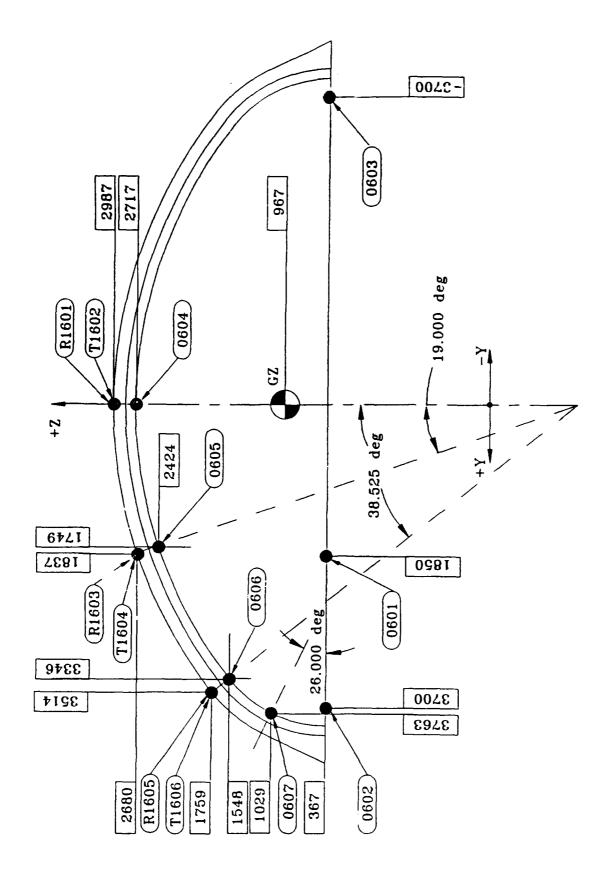


Figure C-6. Instrumentation on arch at X = 6818, PAS-2.

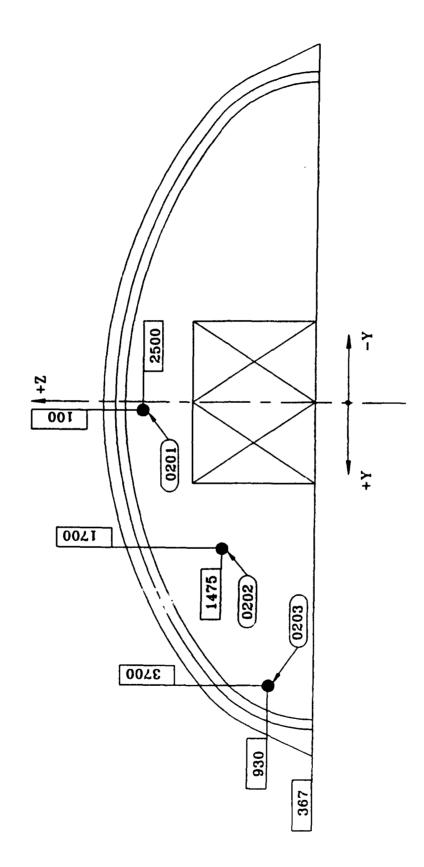


Figure C-7. Instrumentation on inner surface of backwall at X = 13010, PAS-2.

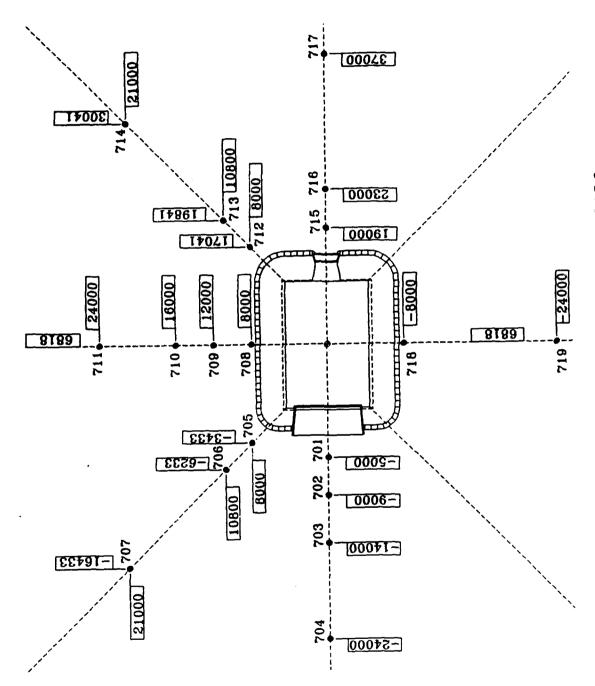
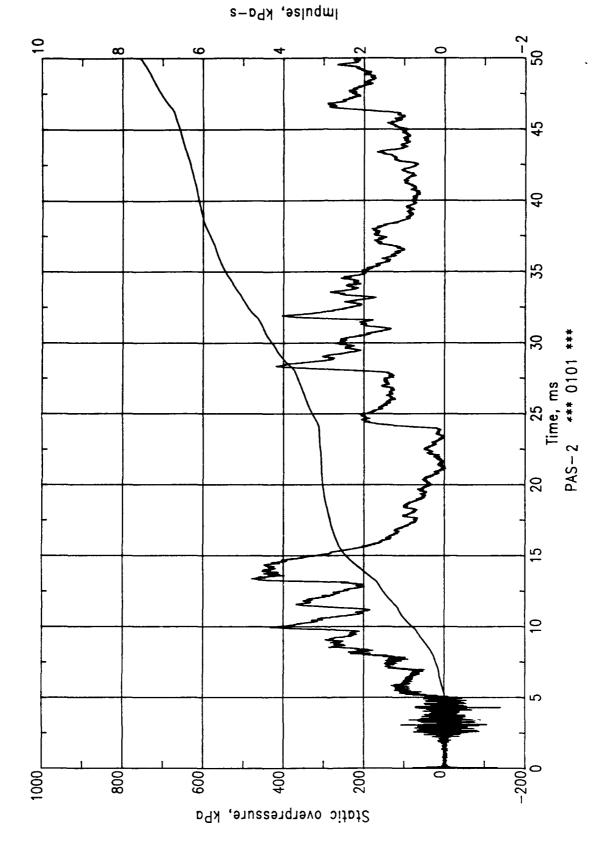
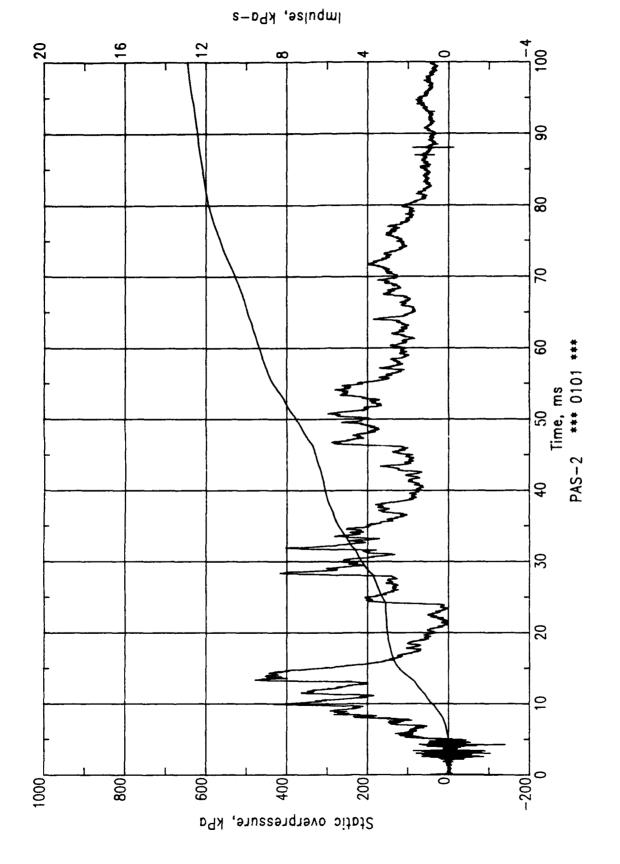


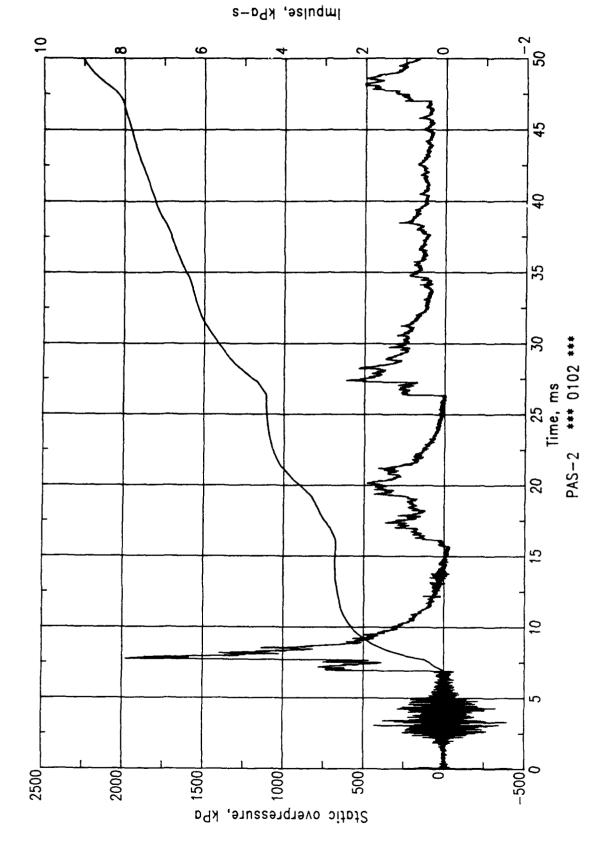
Figure C-8. Free-field airblast gage locations, PAS-2.

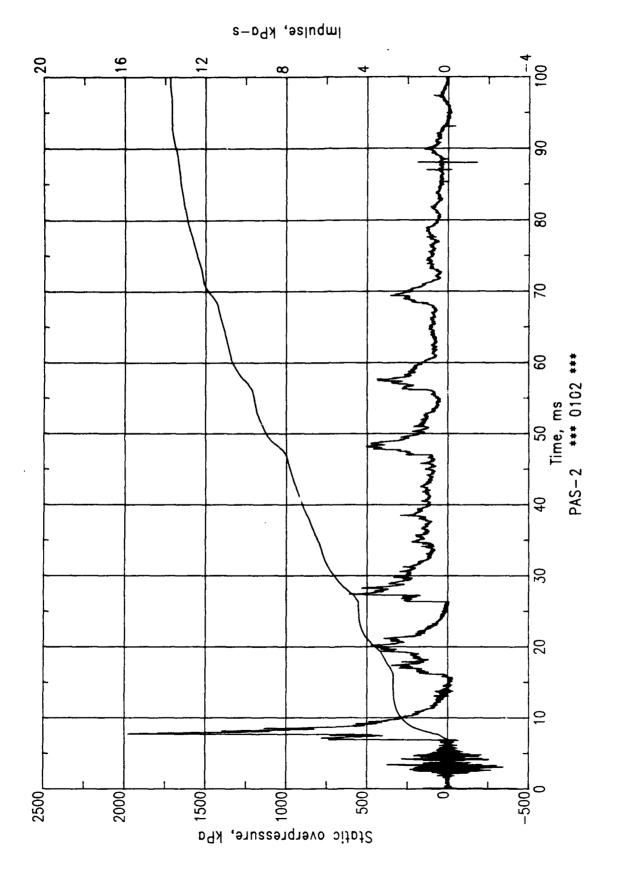


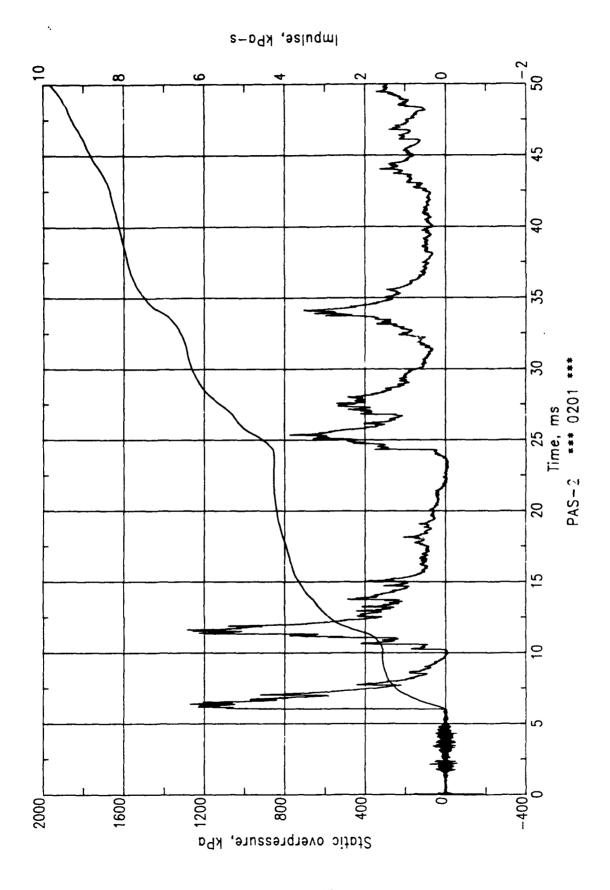


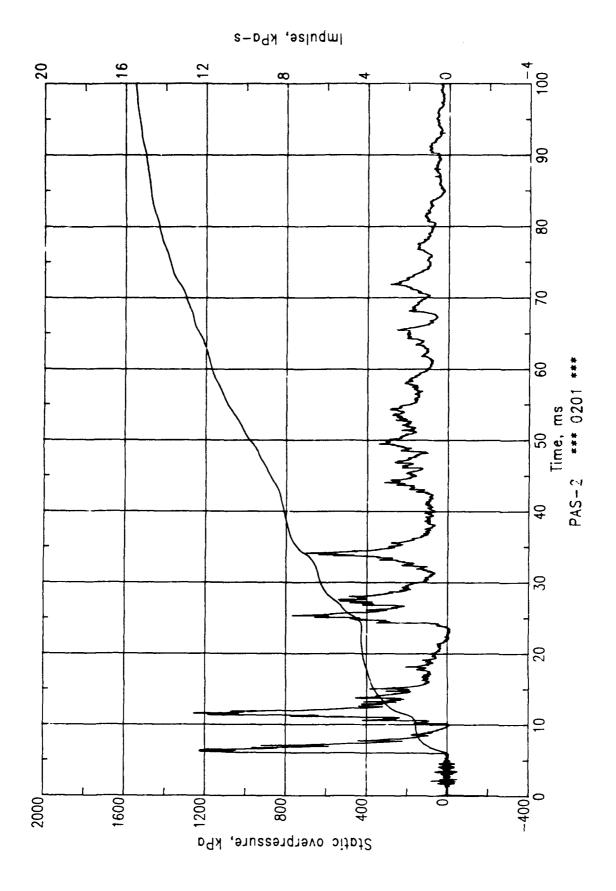


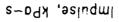


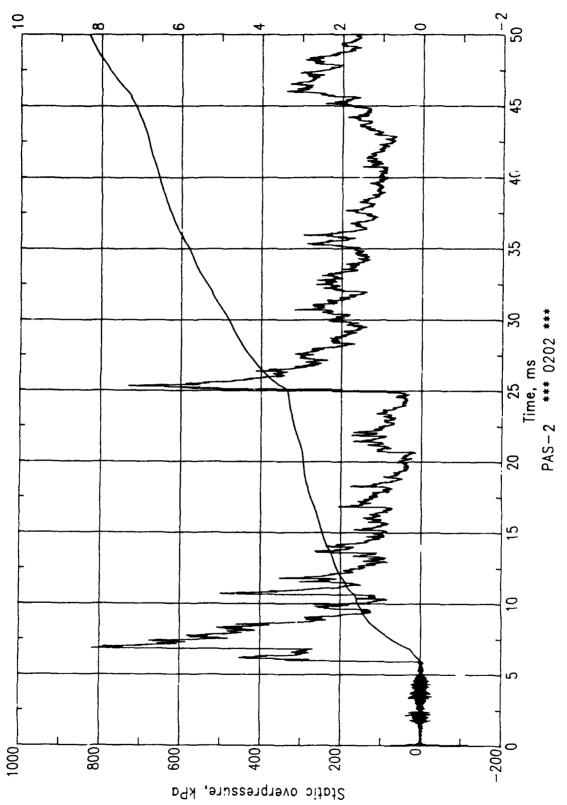


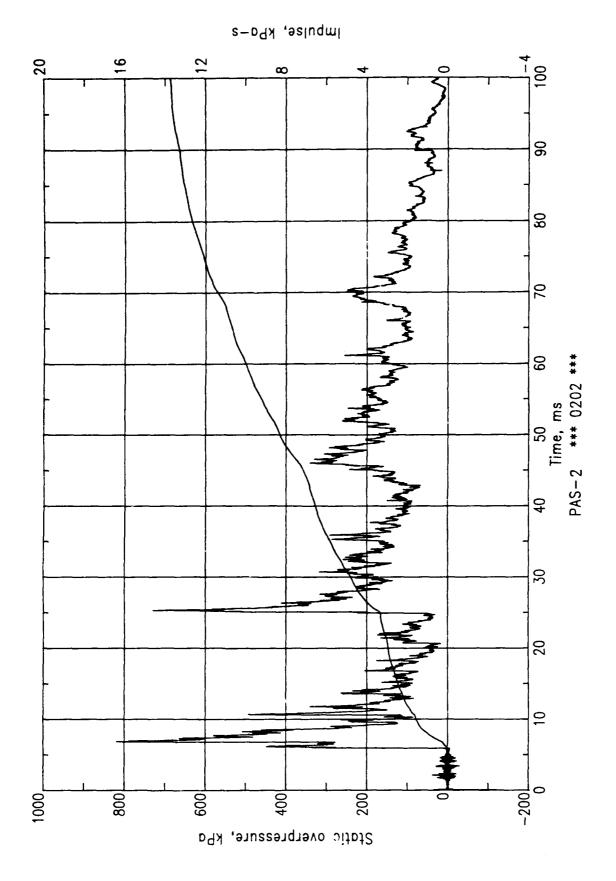


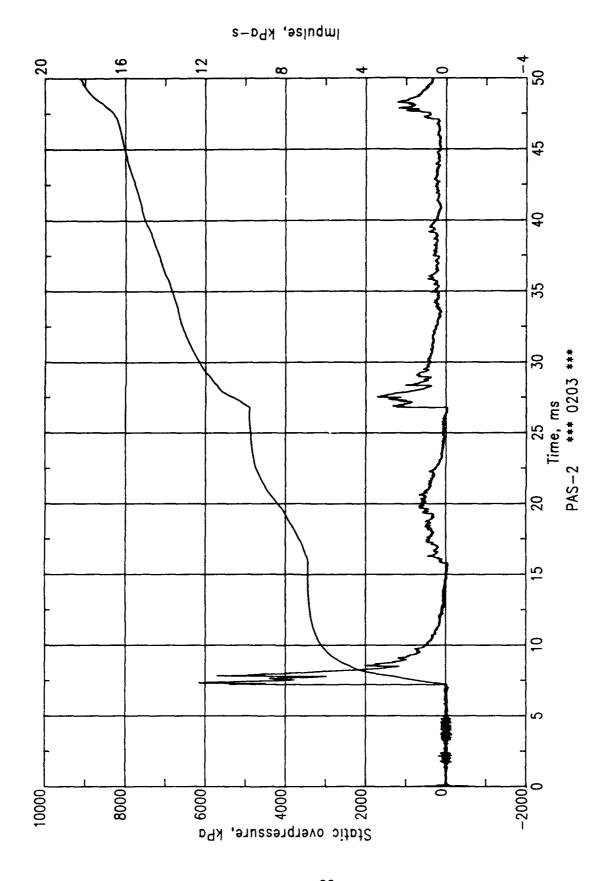


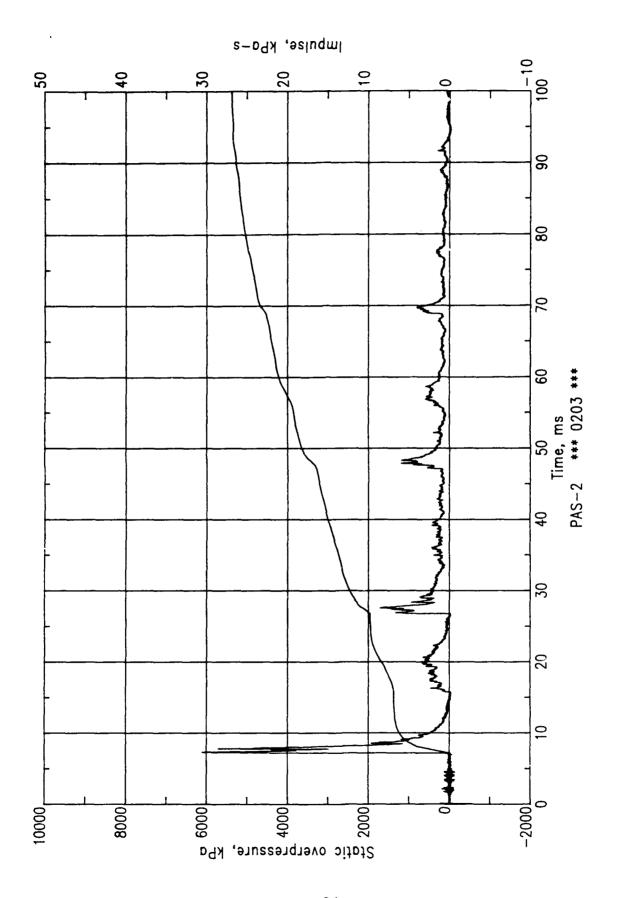


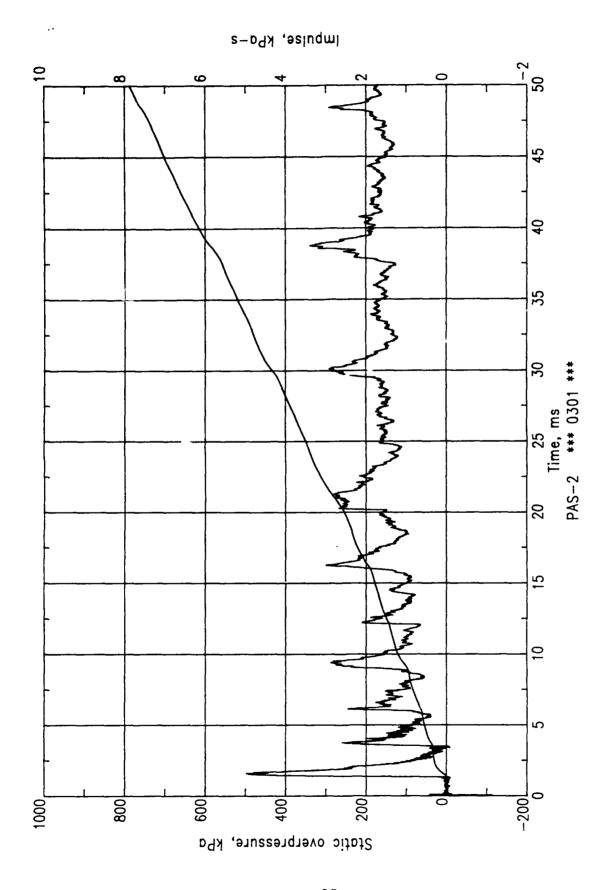


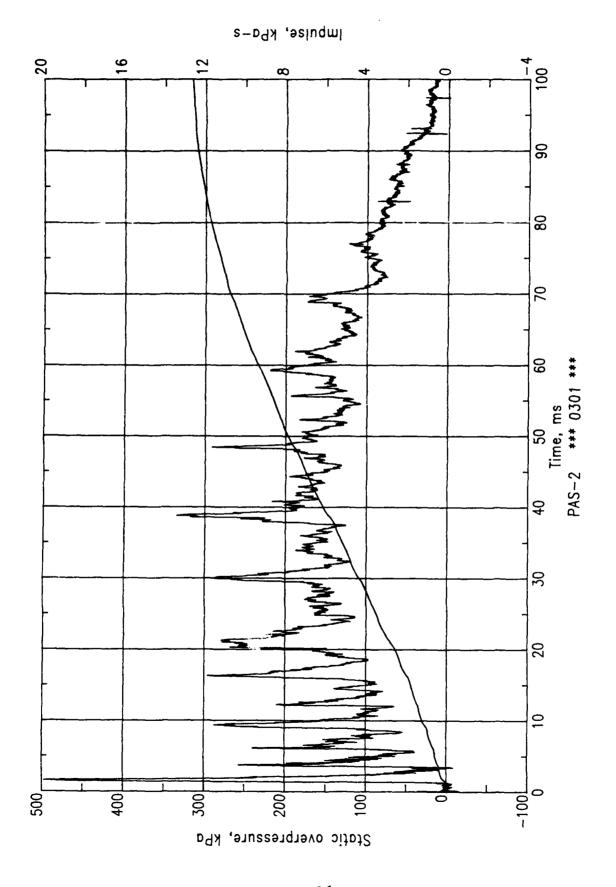




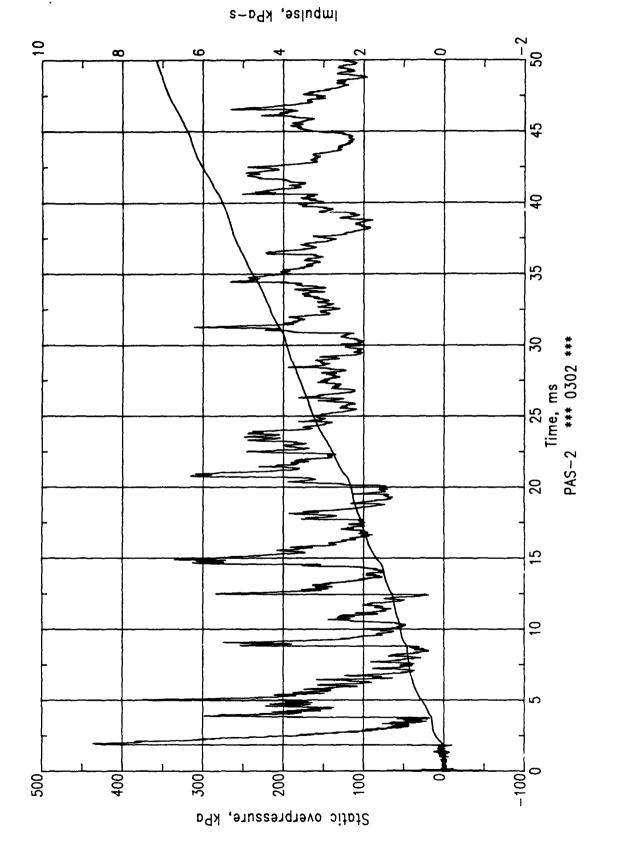


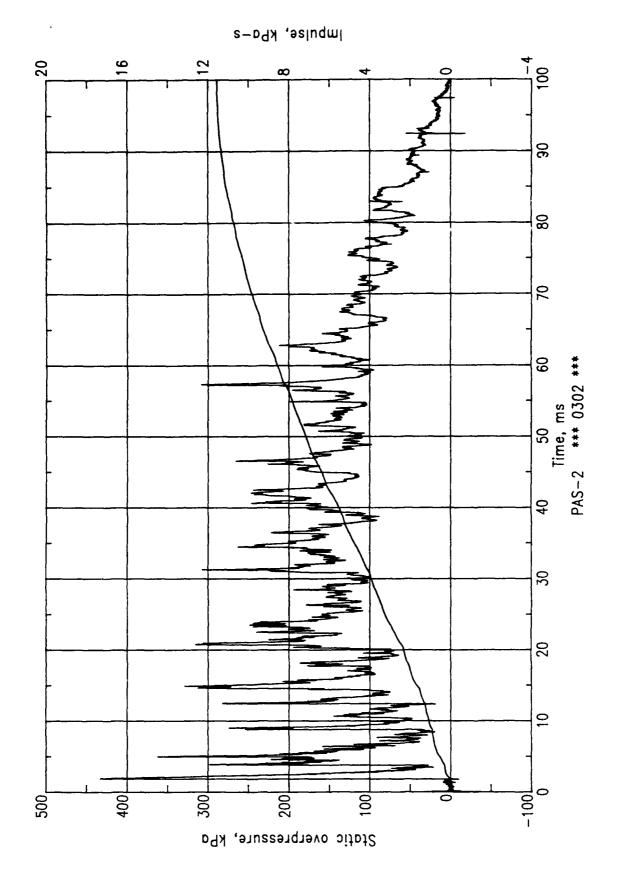


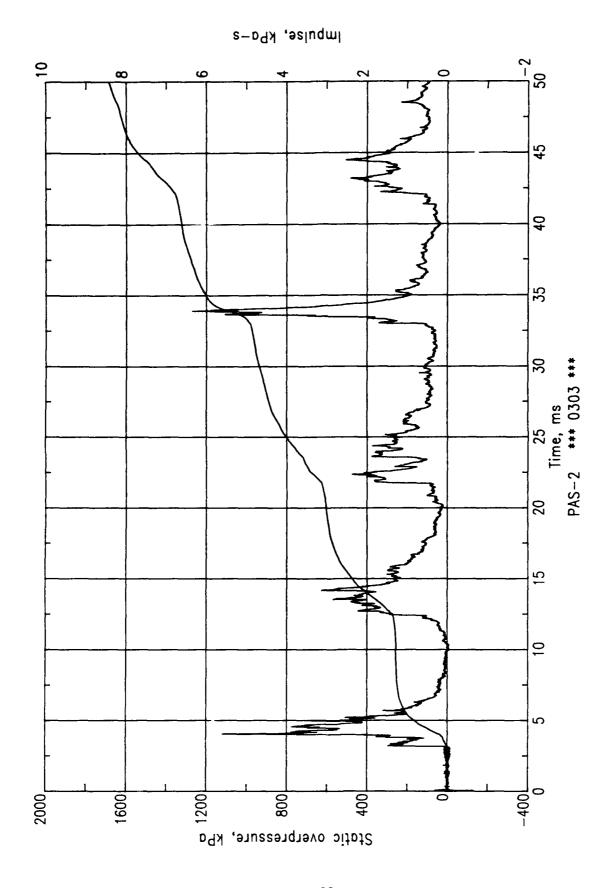


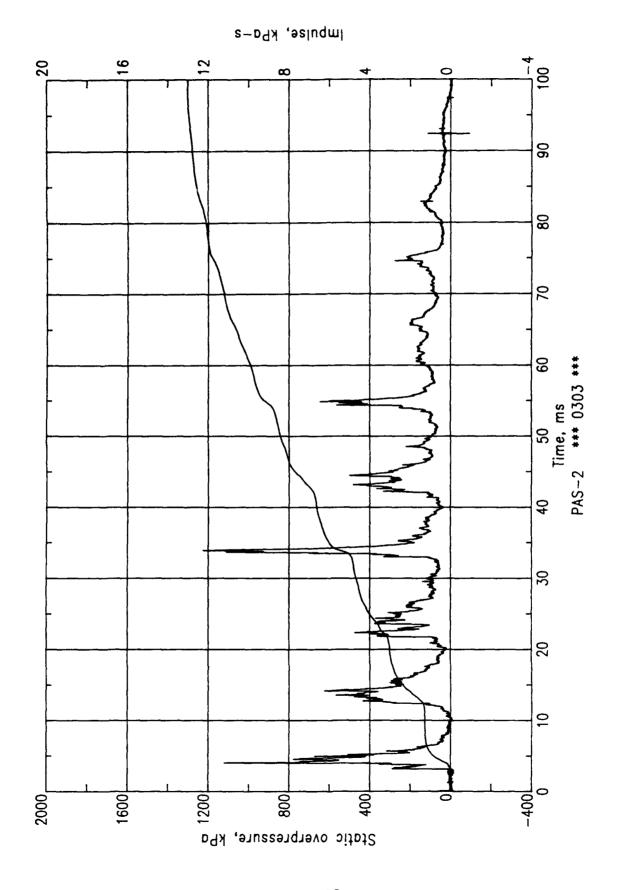




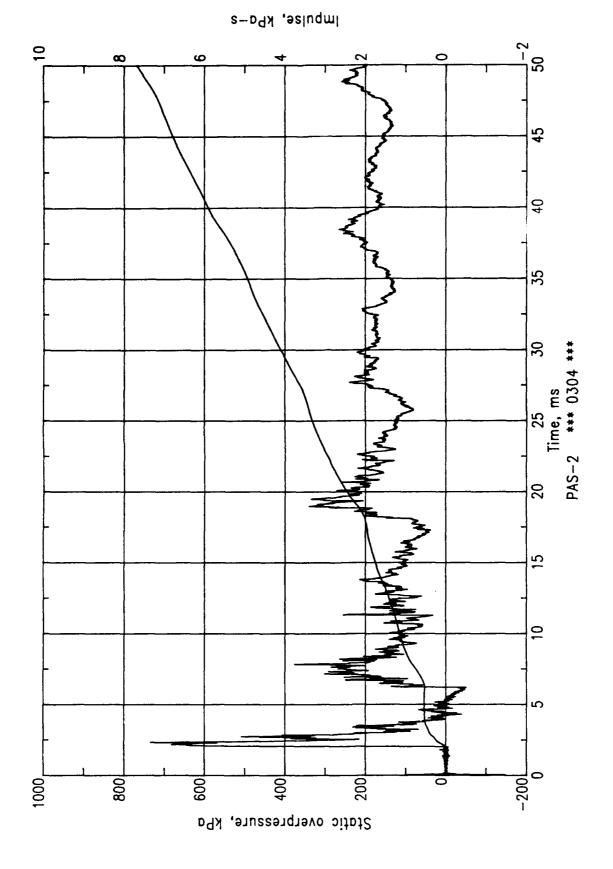




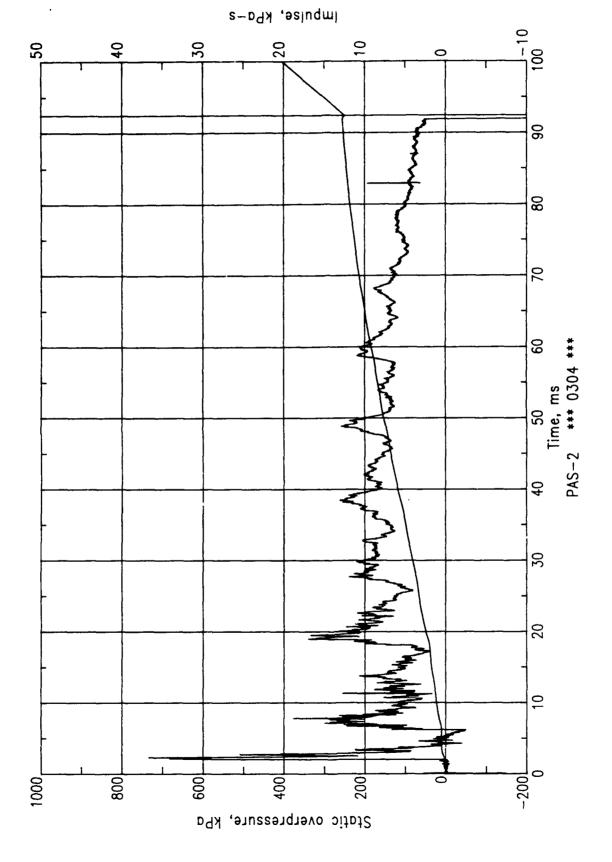


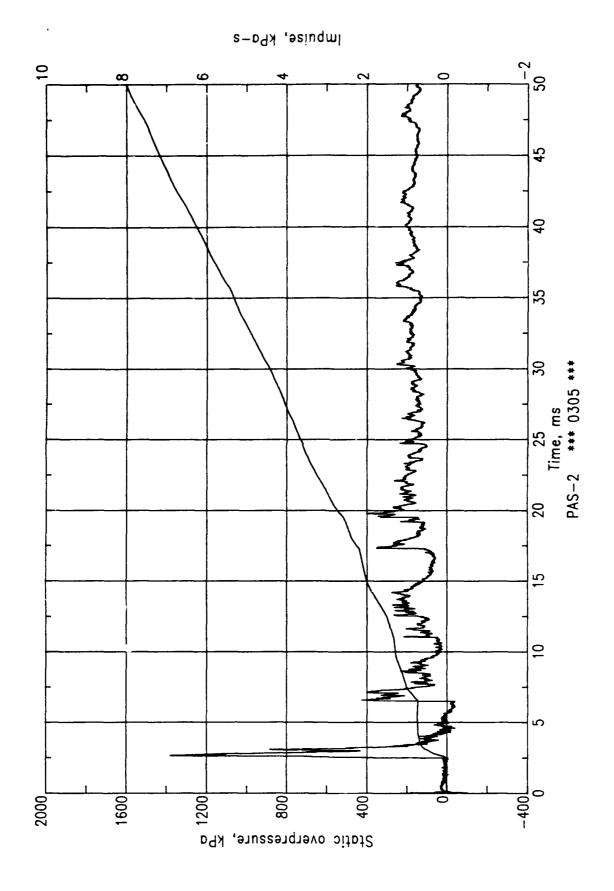


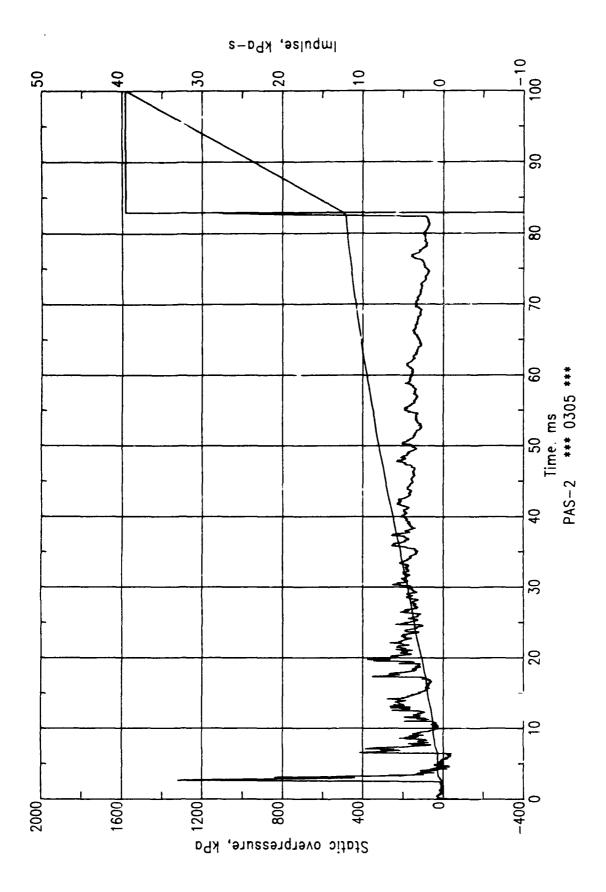


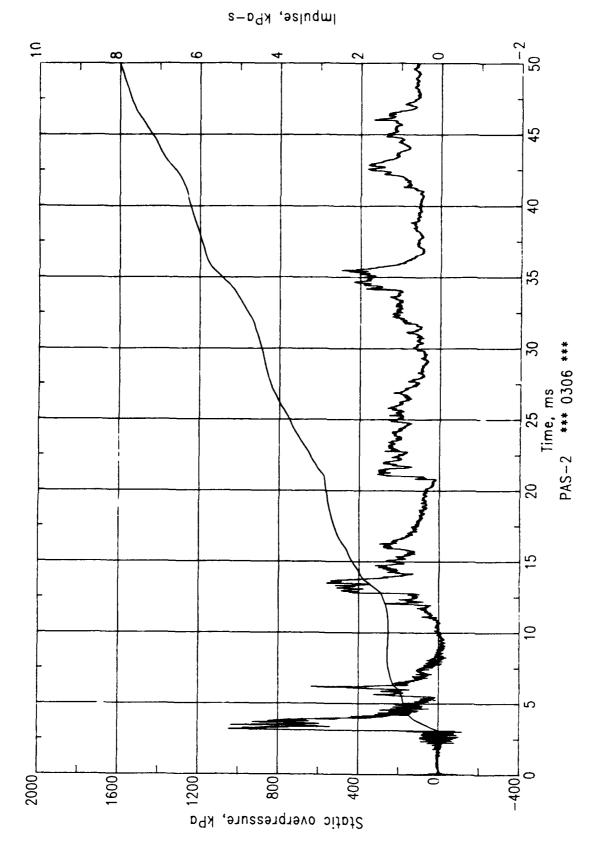


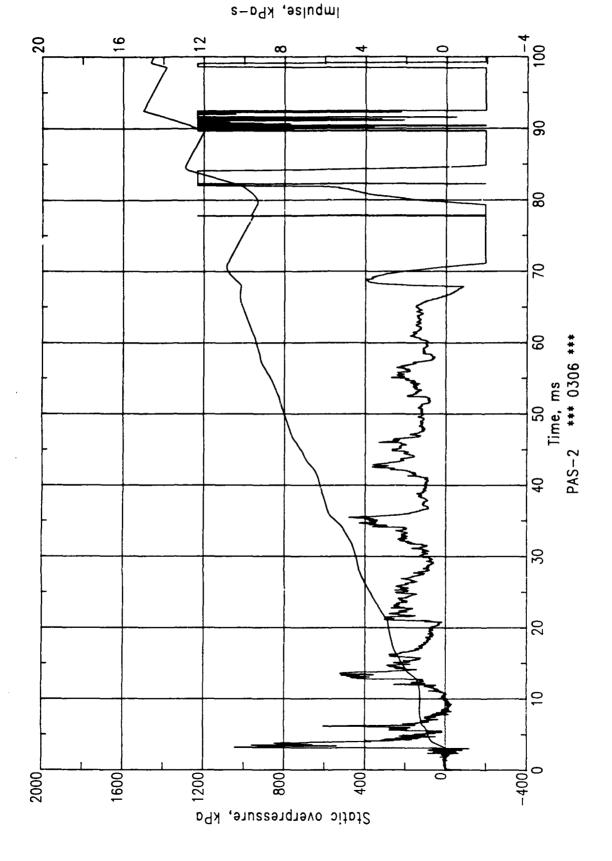


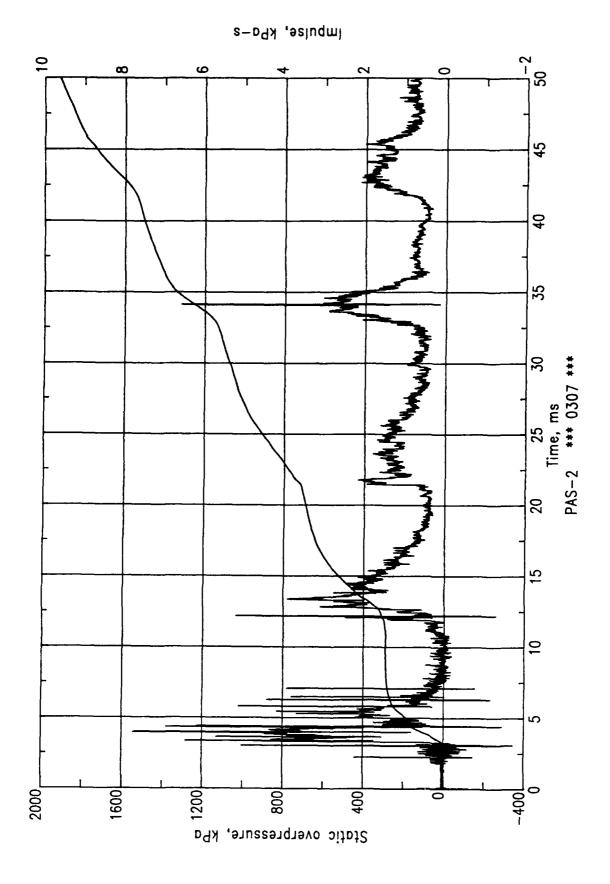




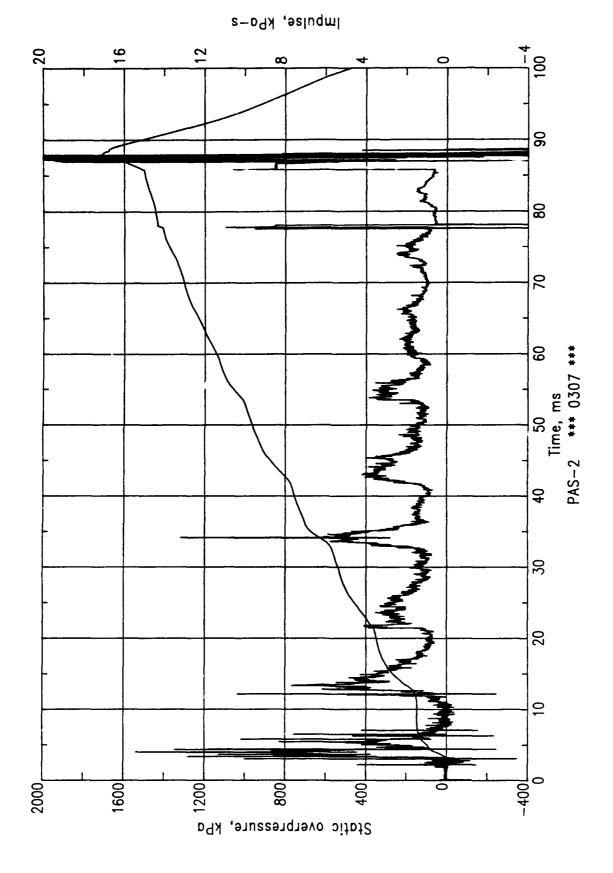


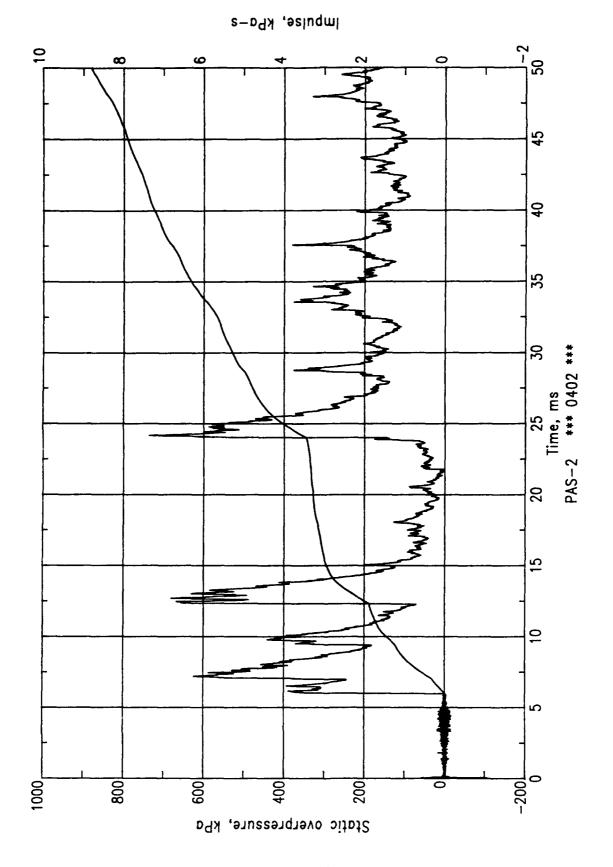


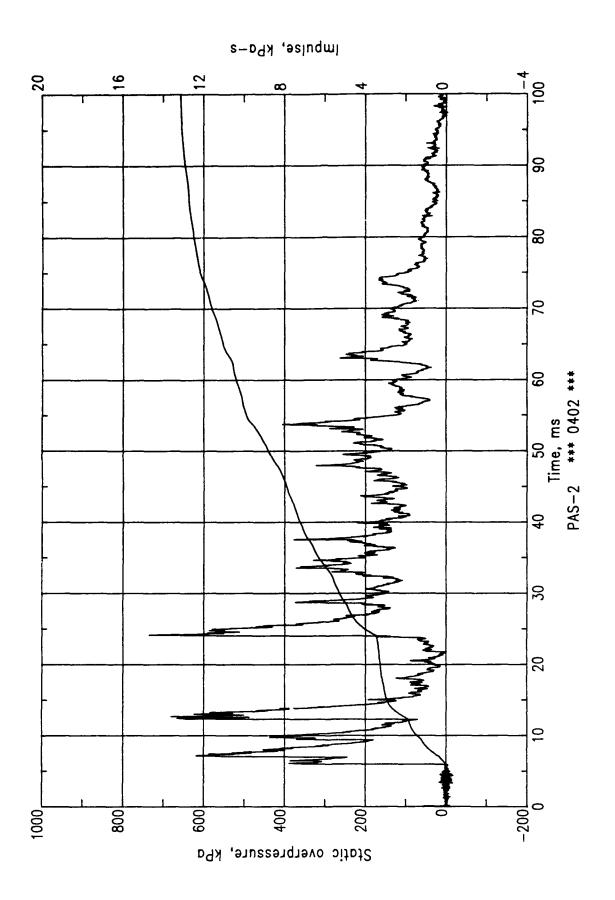


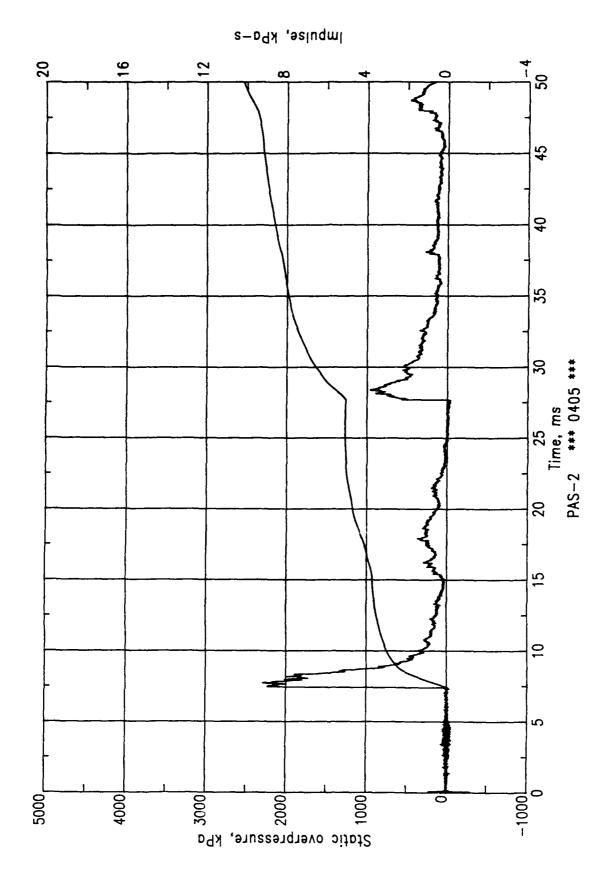


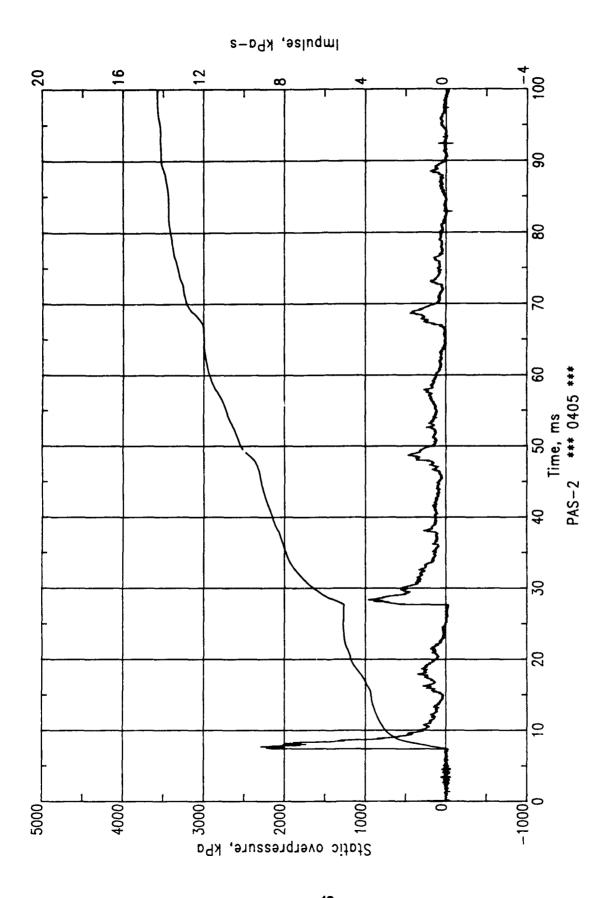


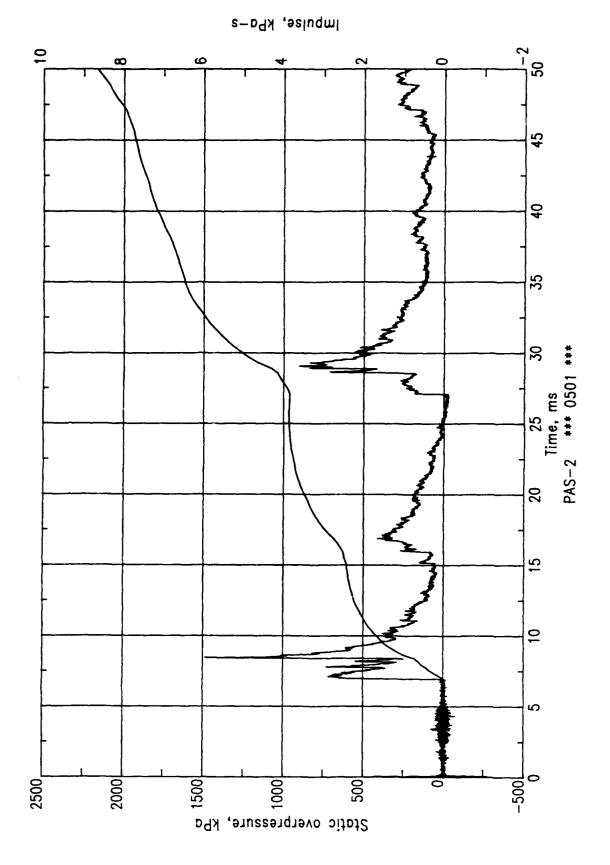




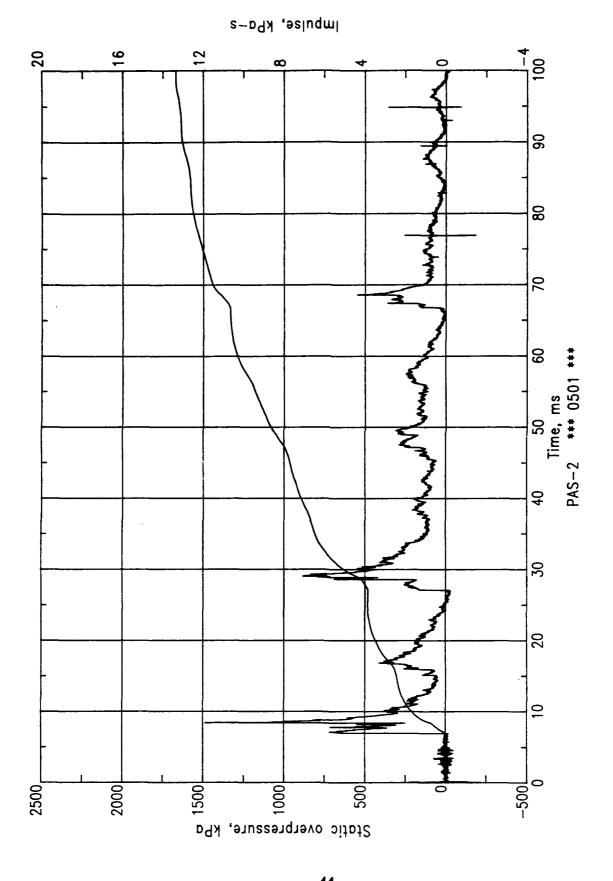


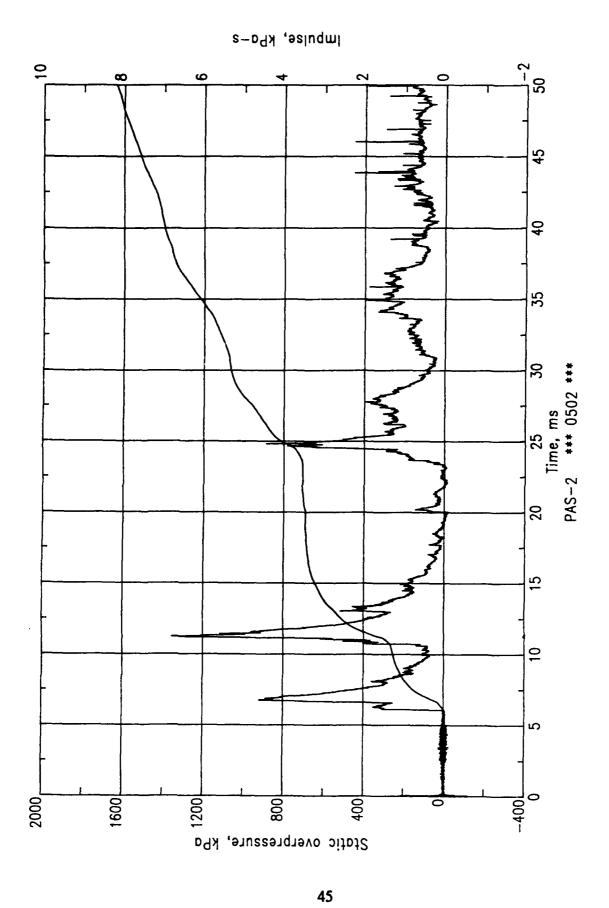


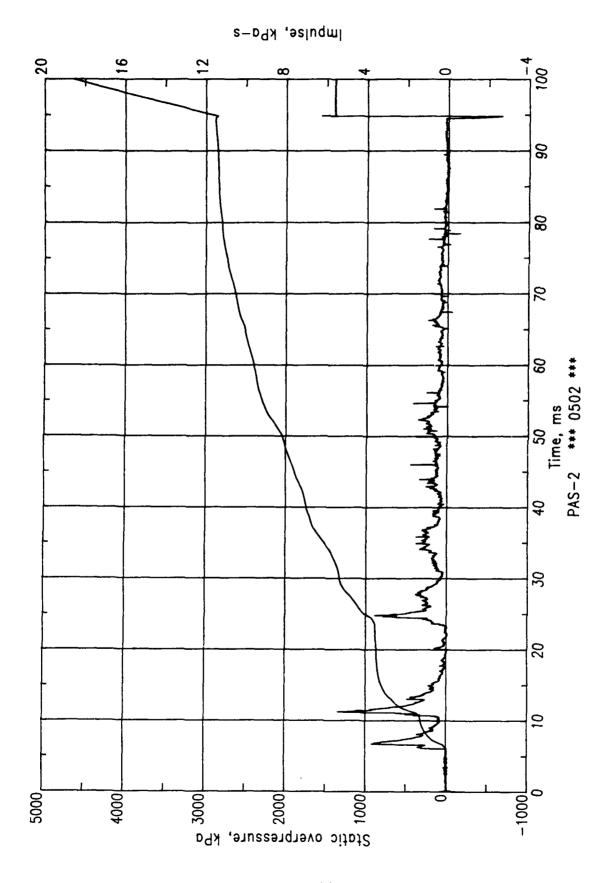




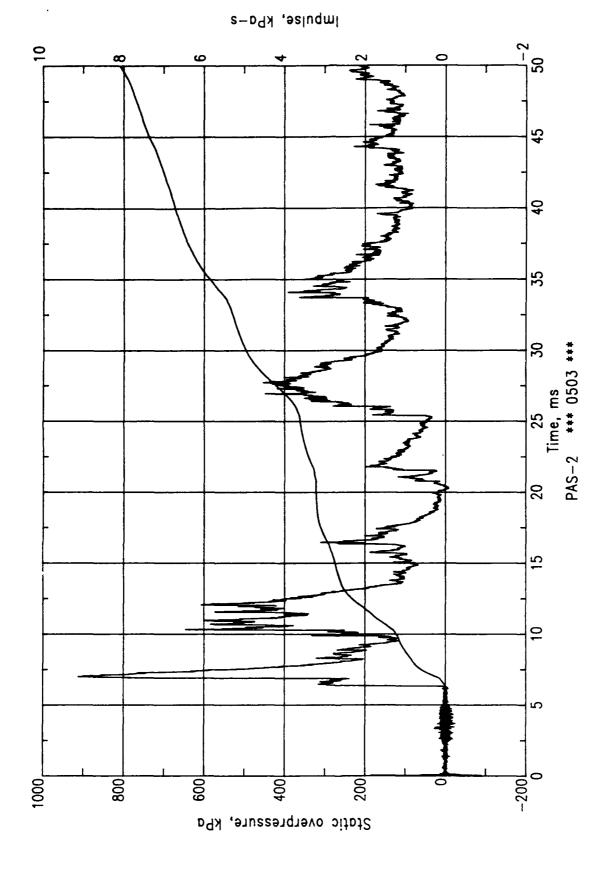


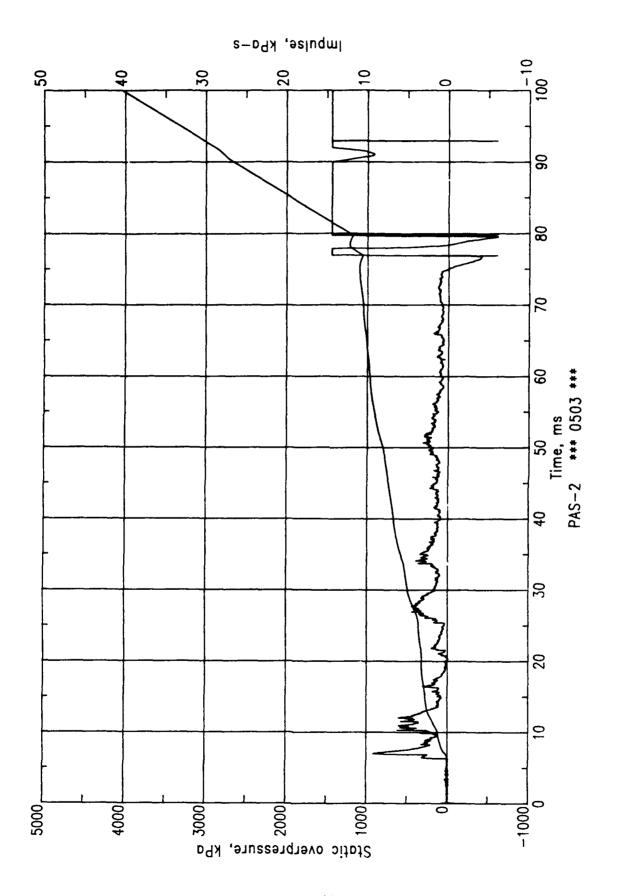


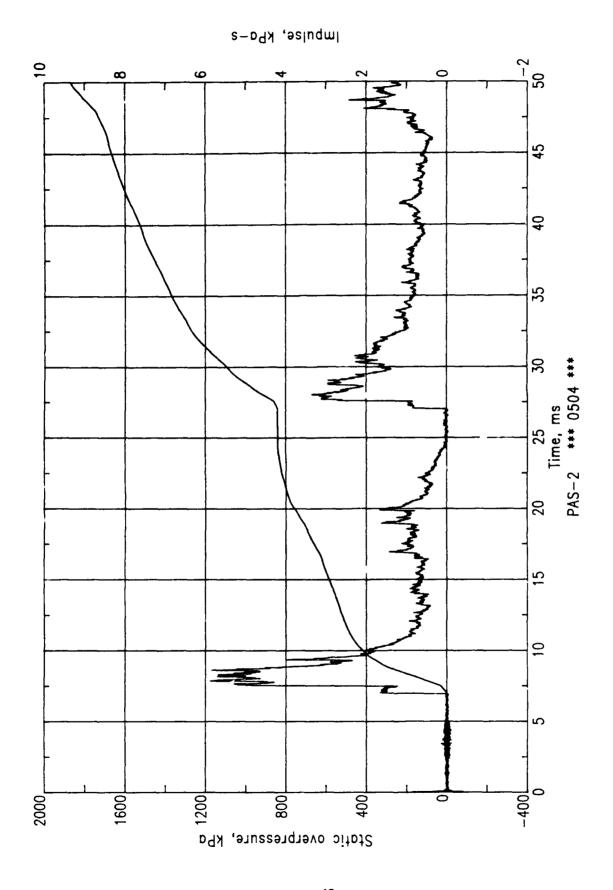


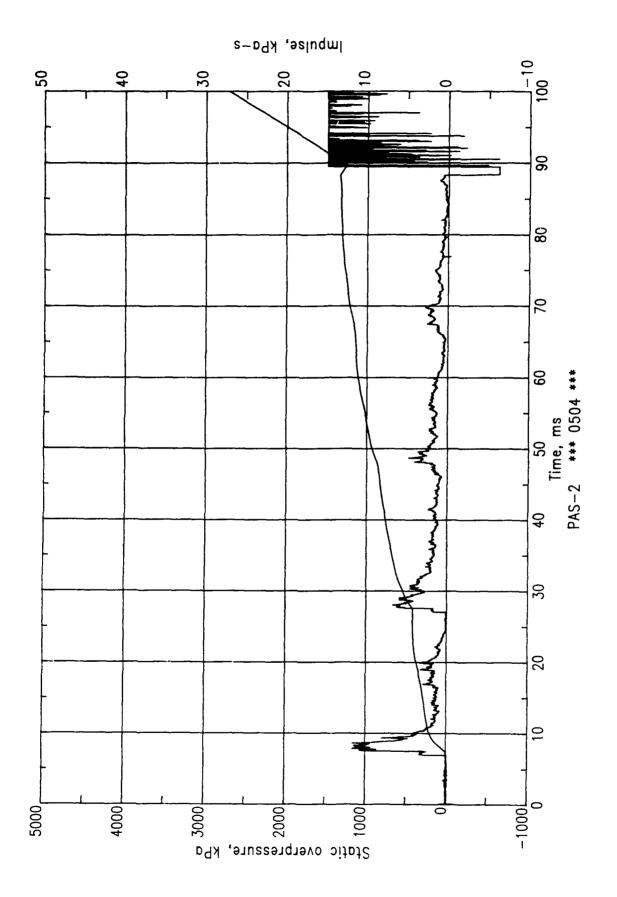




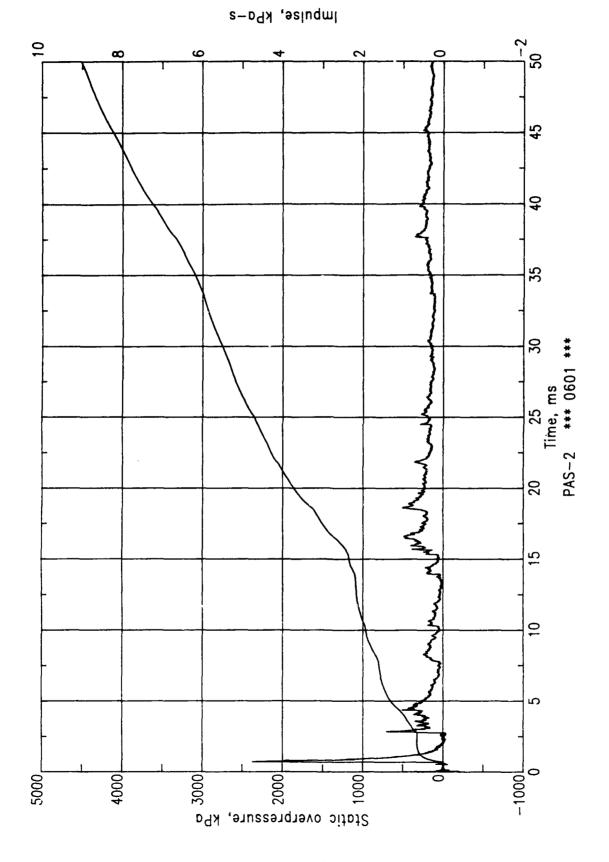


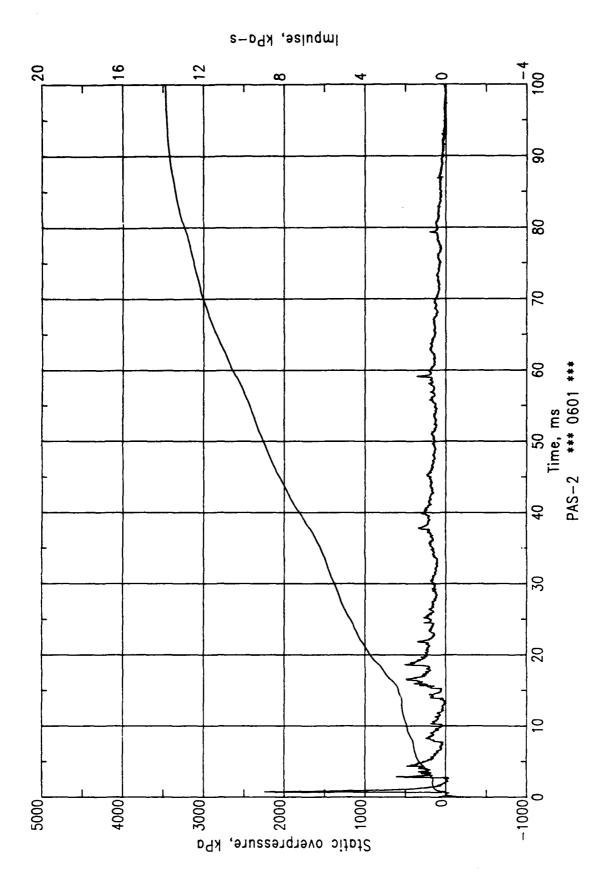


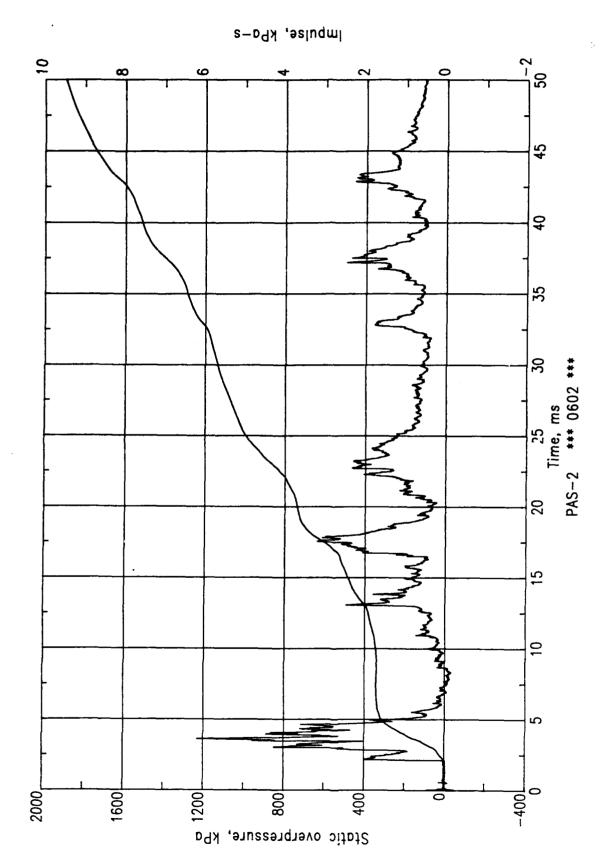


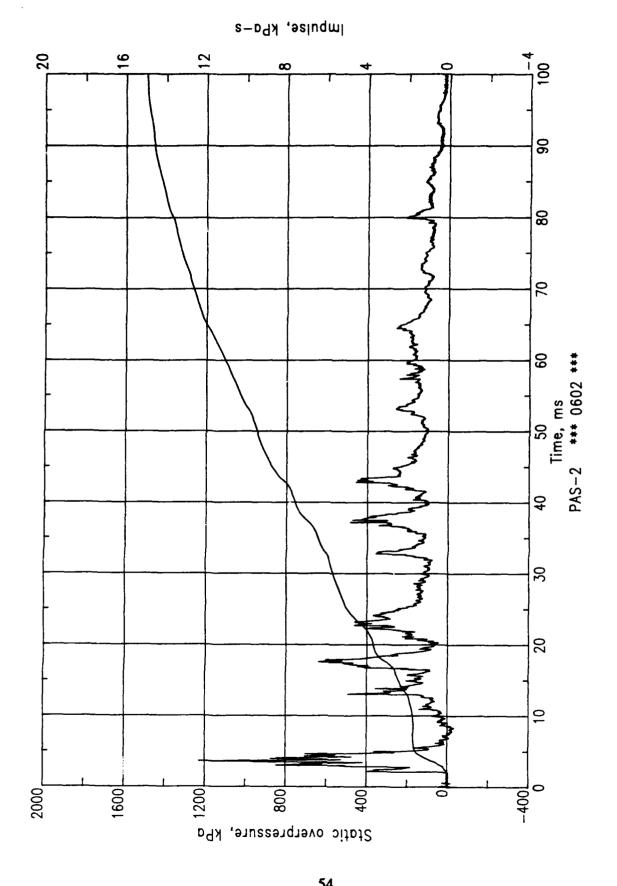








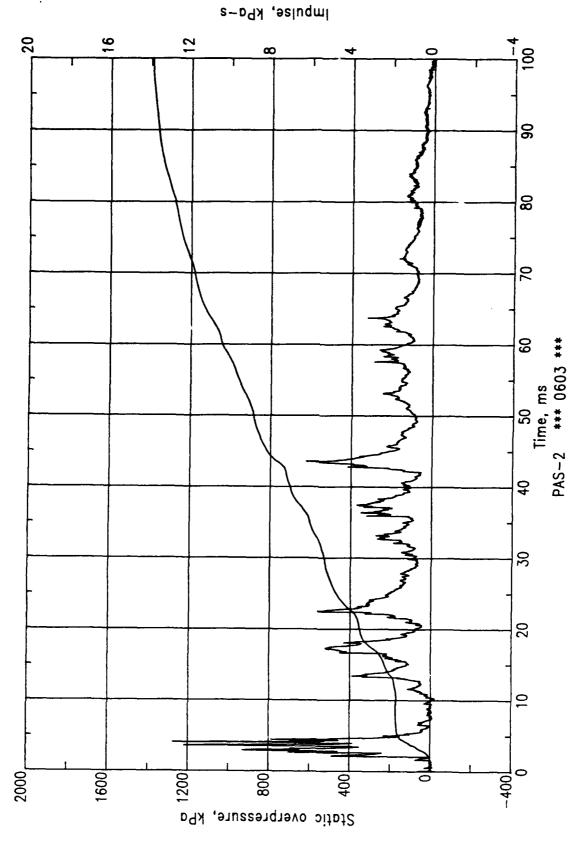


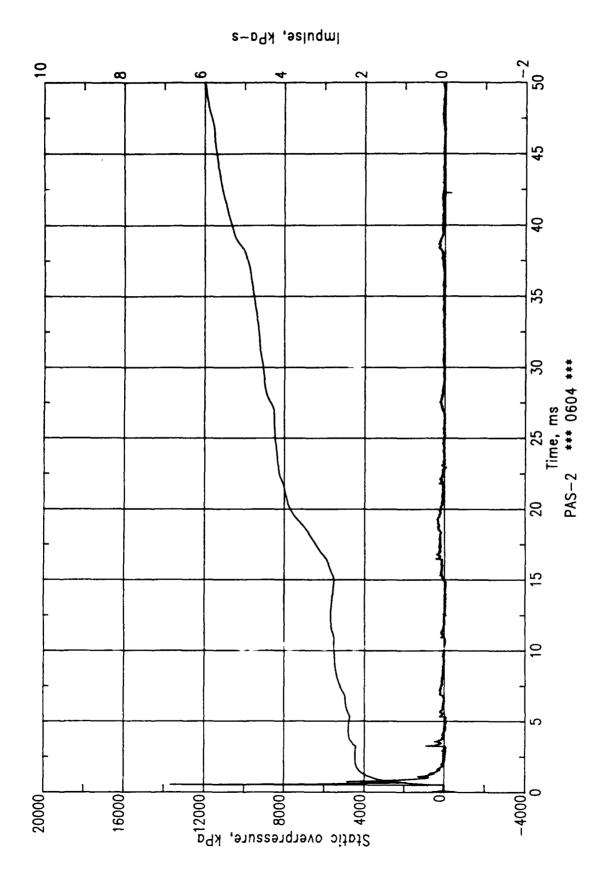


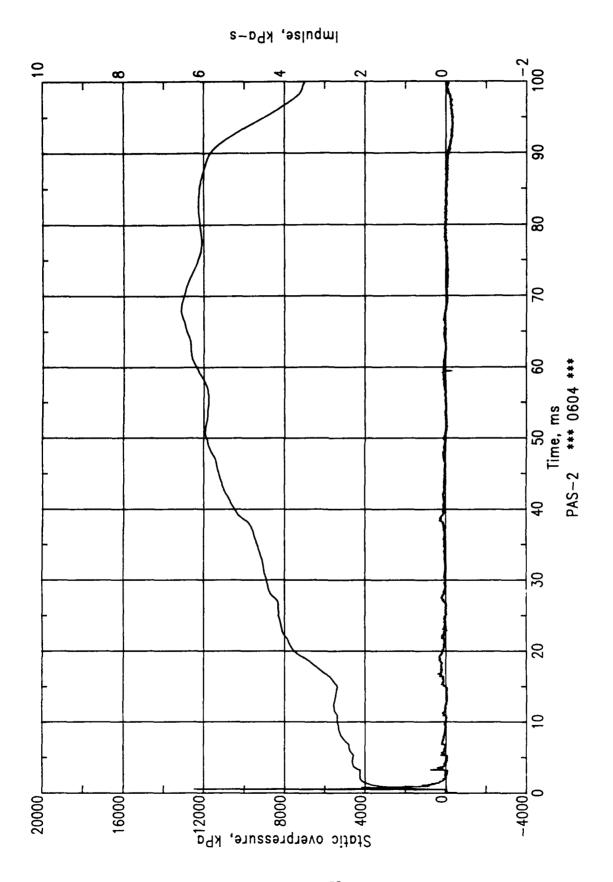
lmbnise¹ kba−s

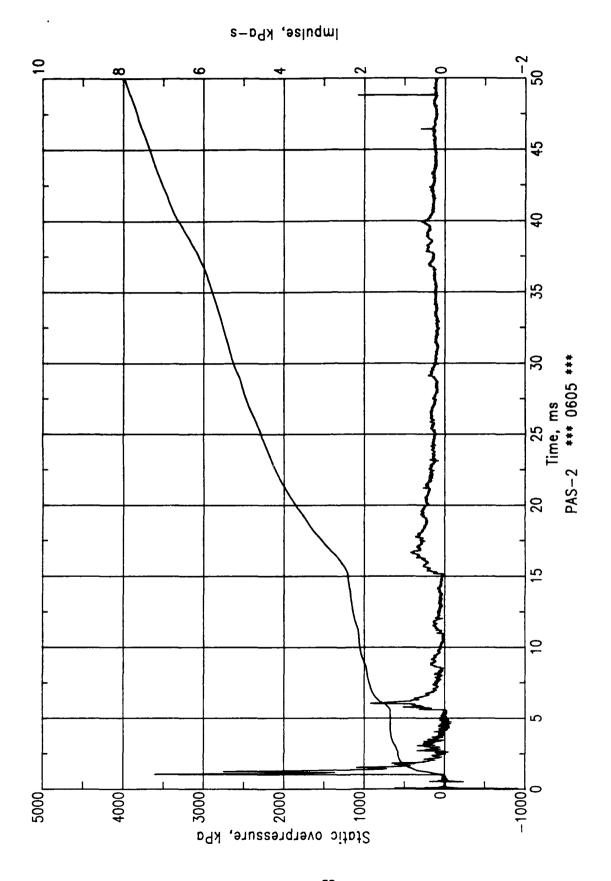
Static overpressure, kPa

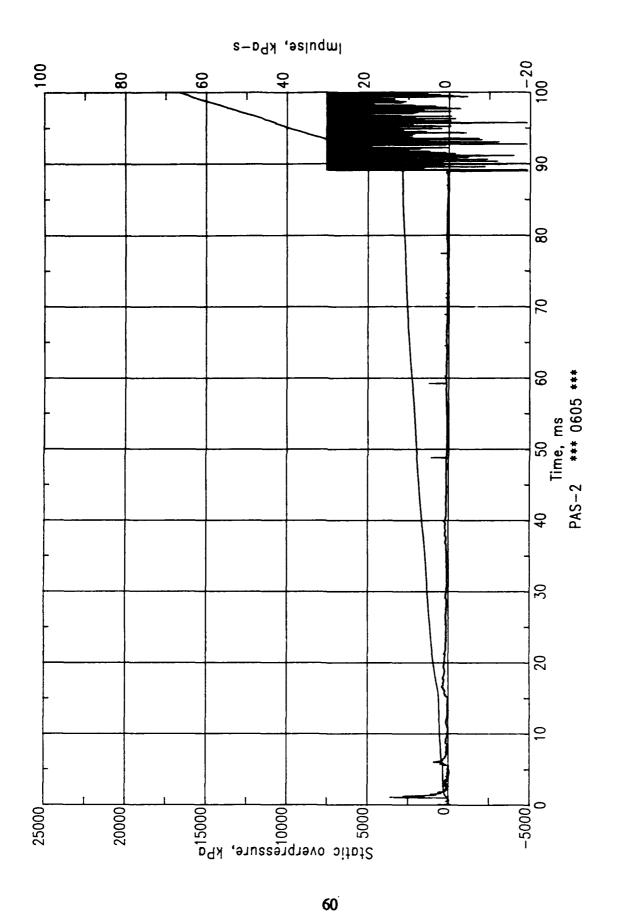


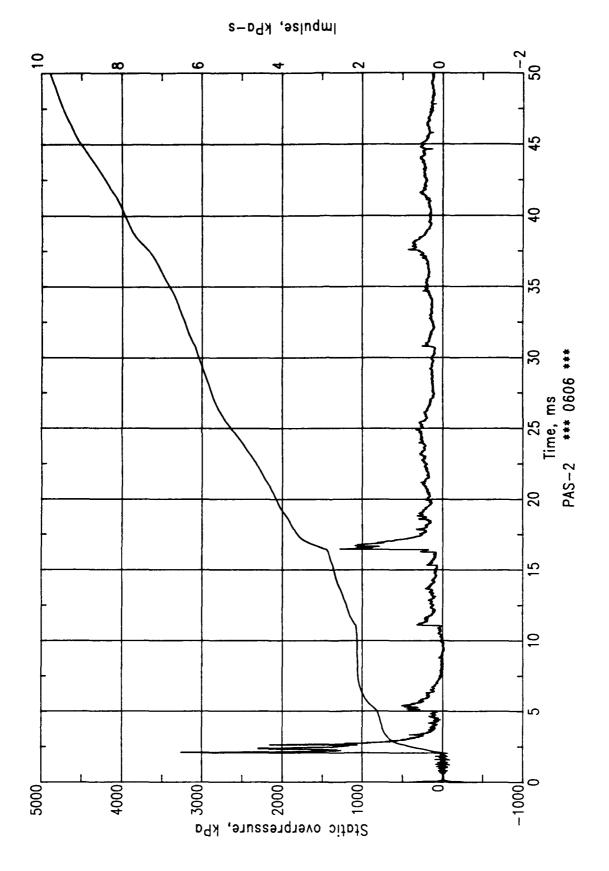


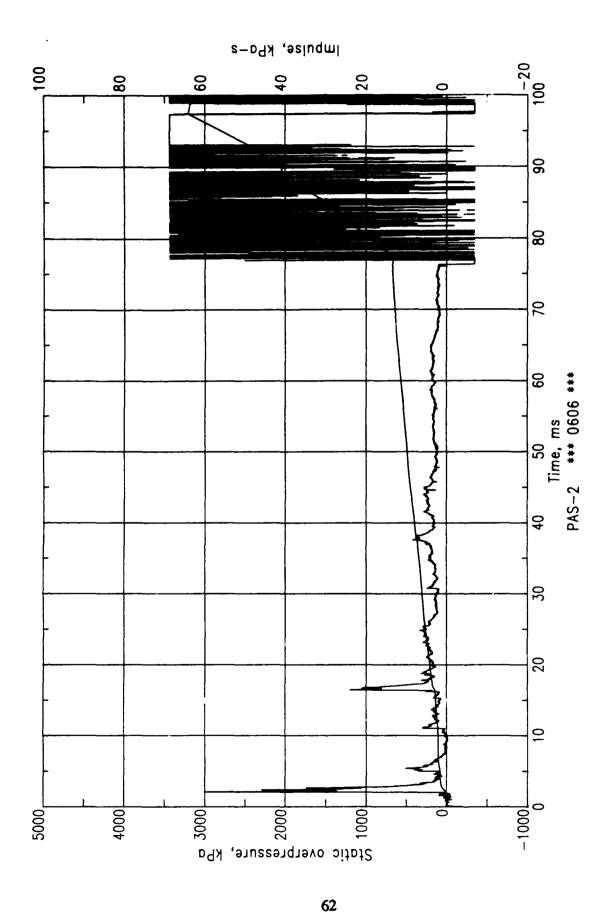




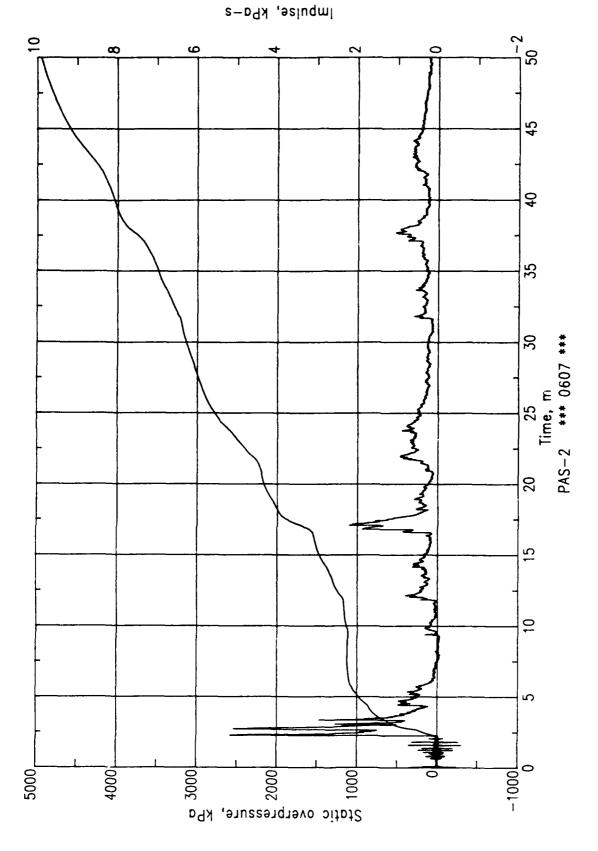


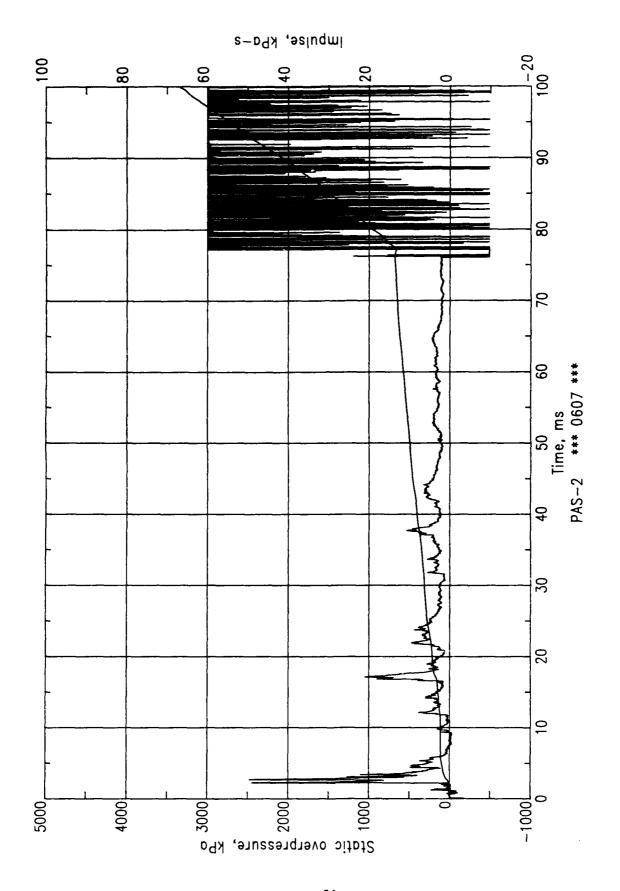


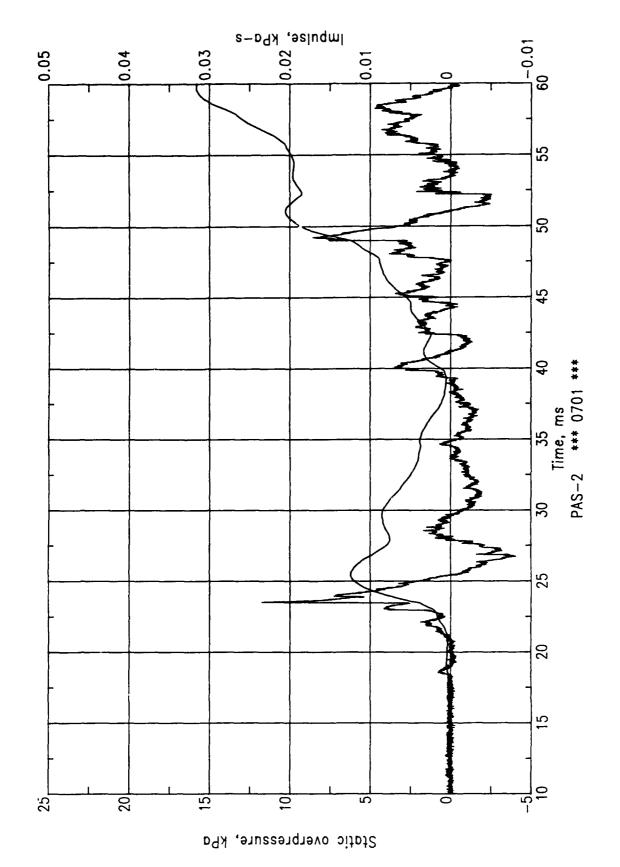


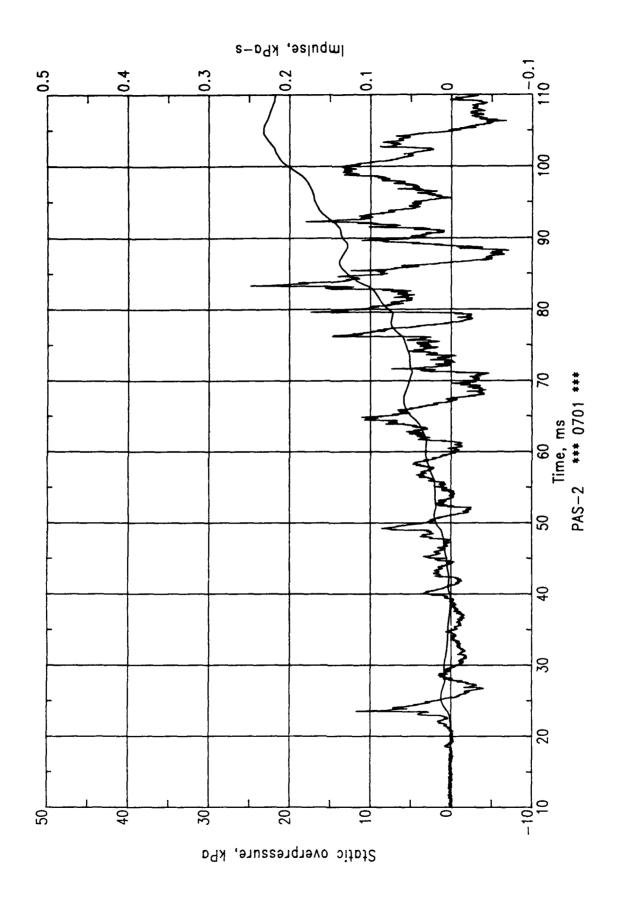


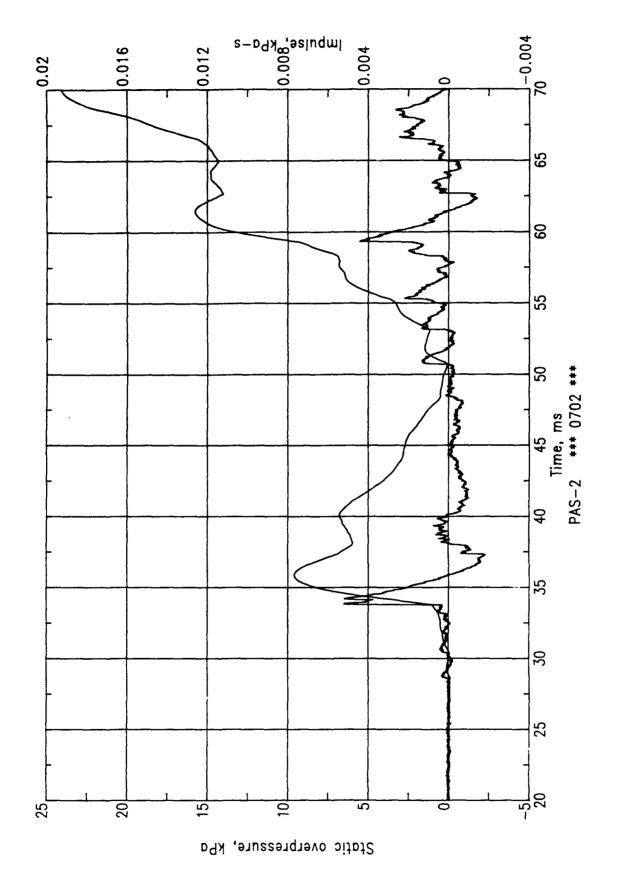




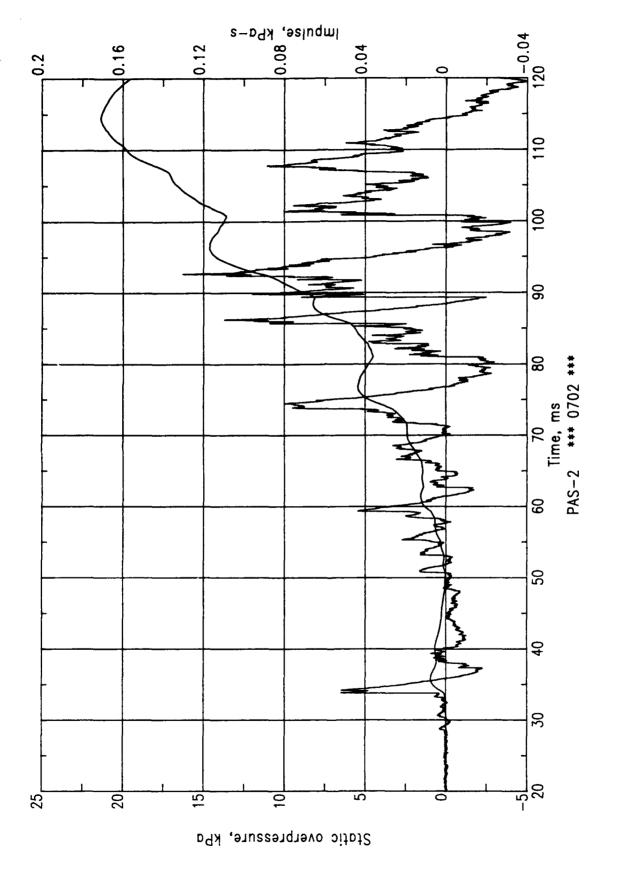


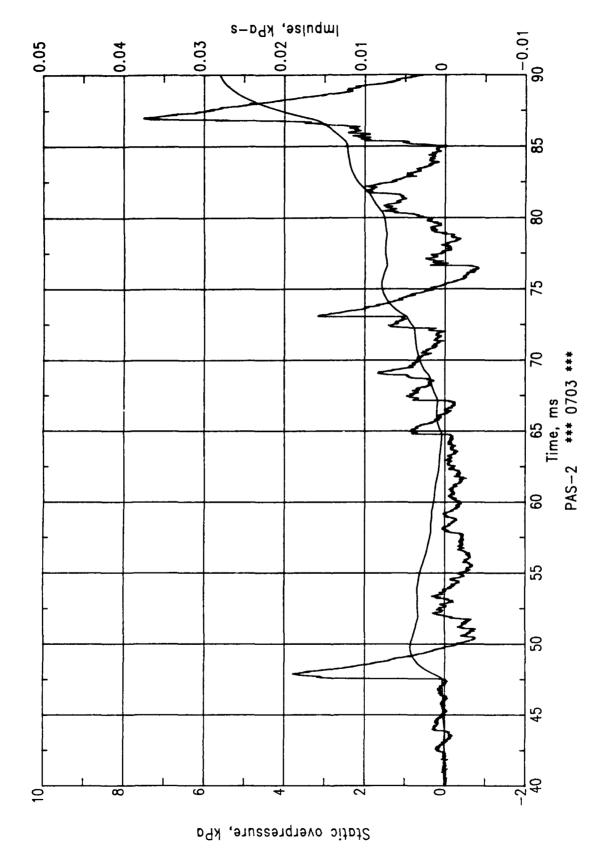


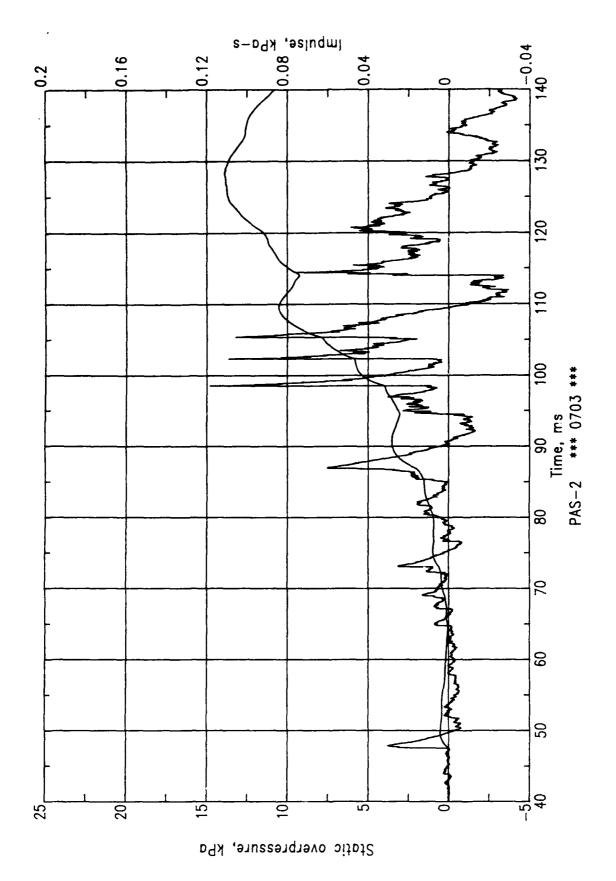


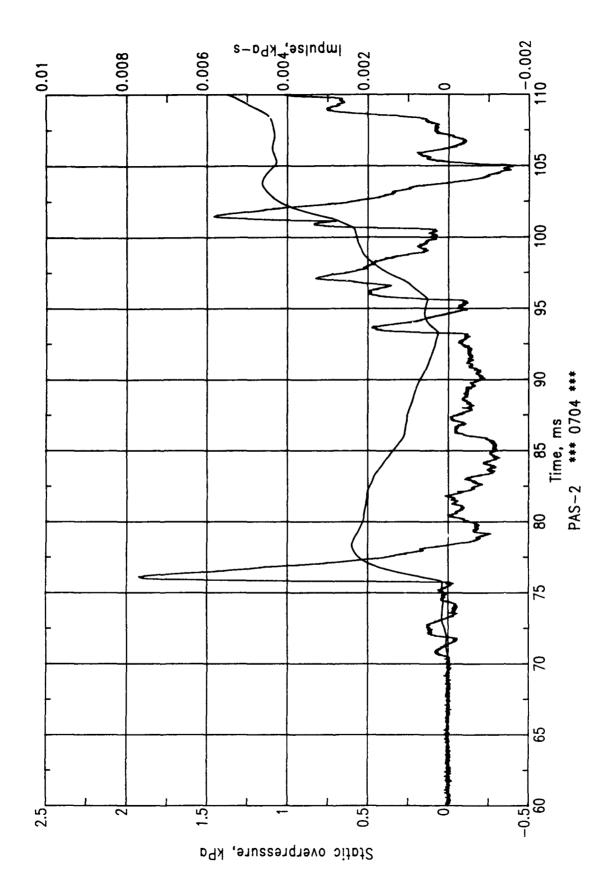


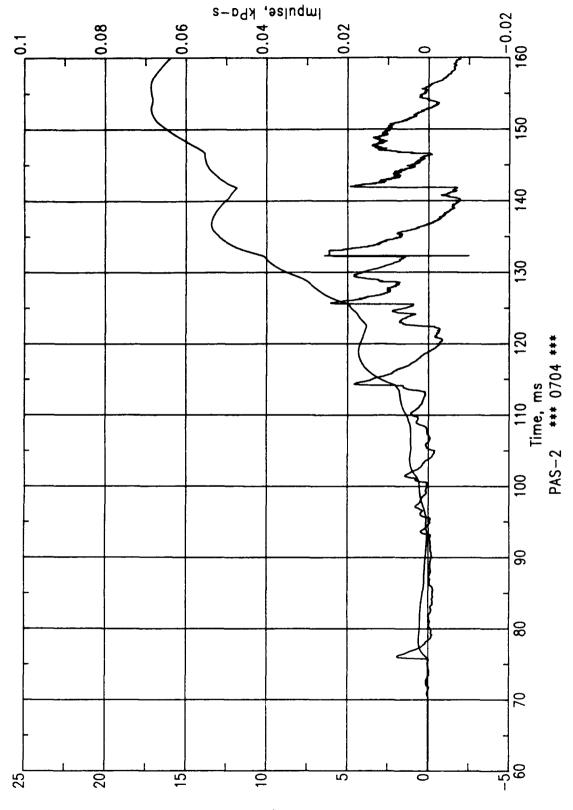




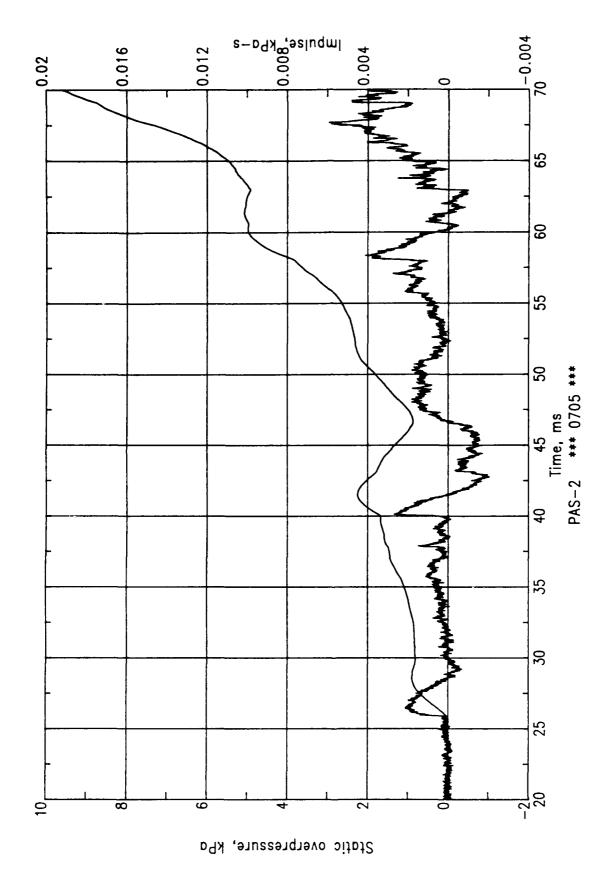


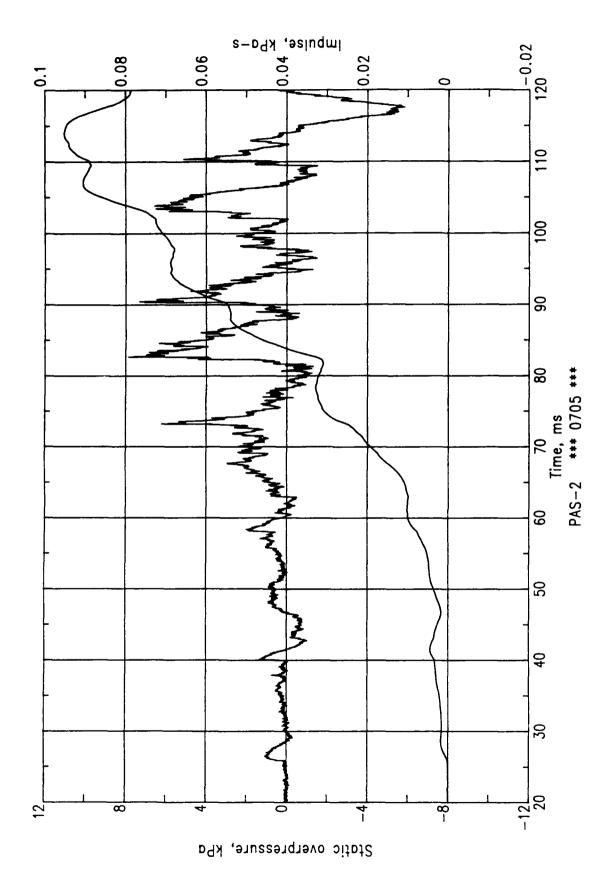


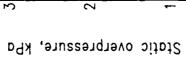


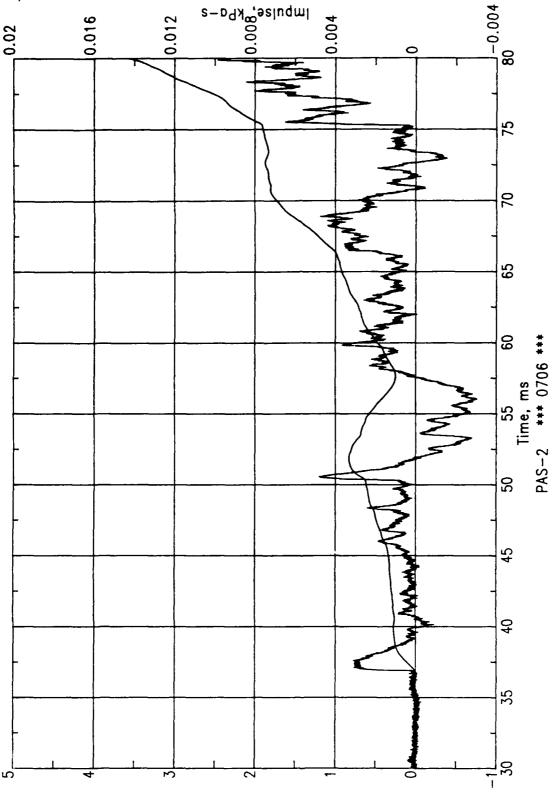


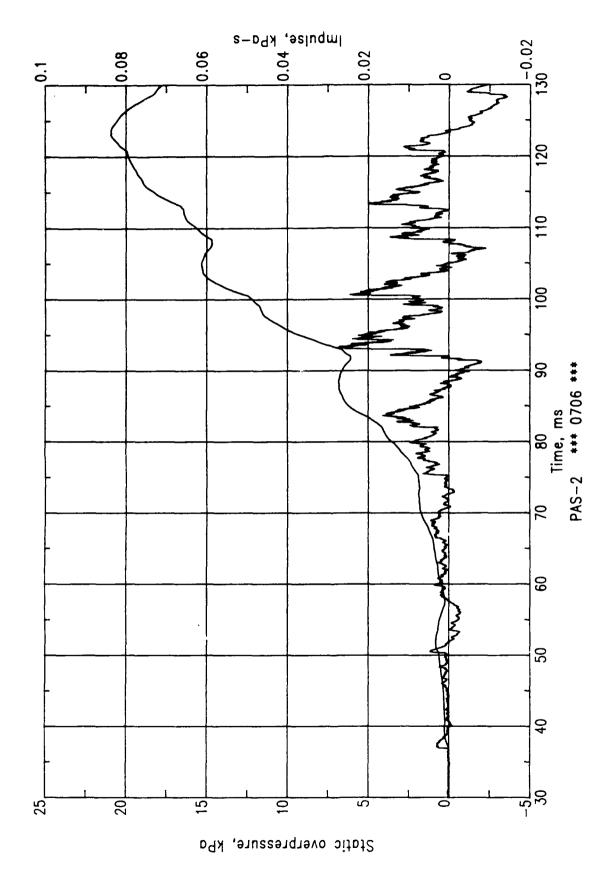
Static overpressure, kPa

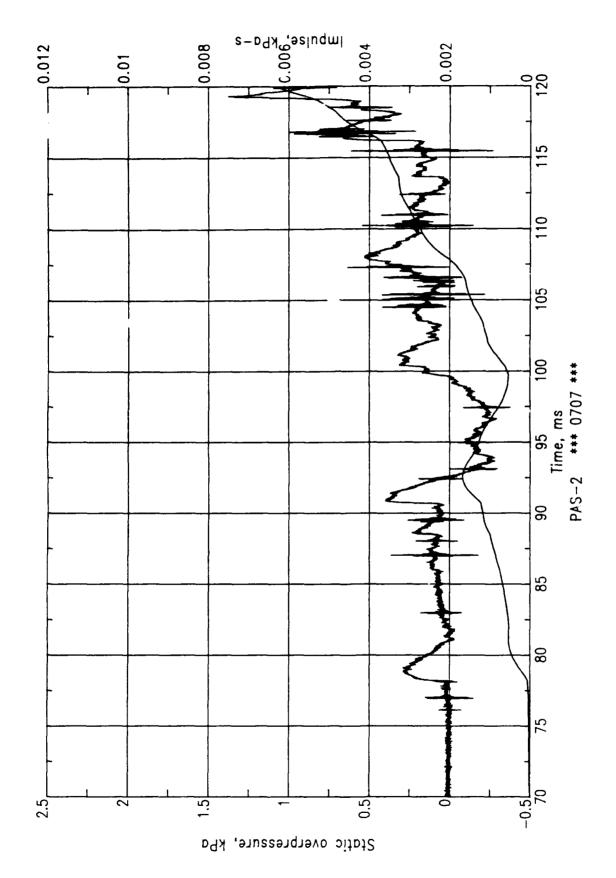


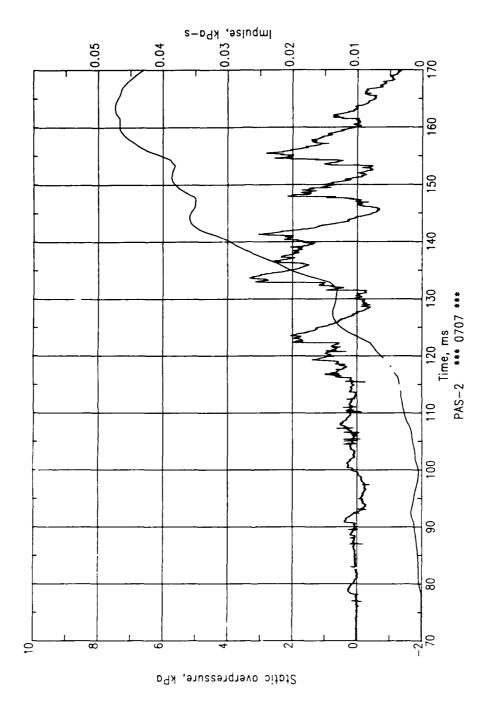


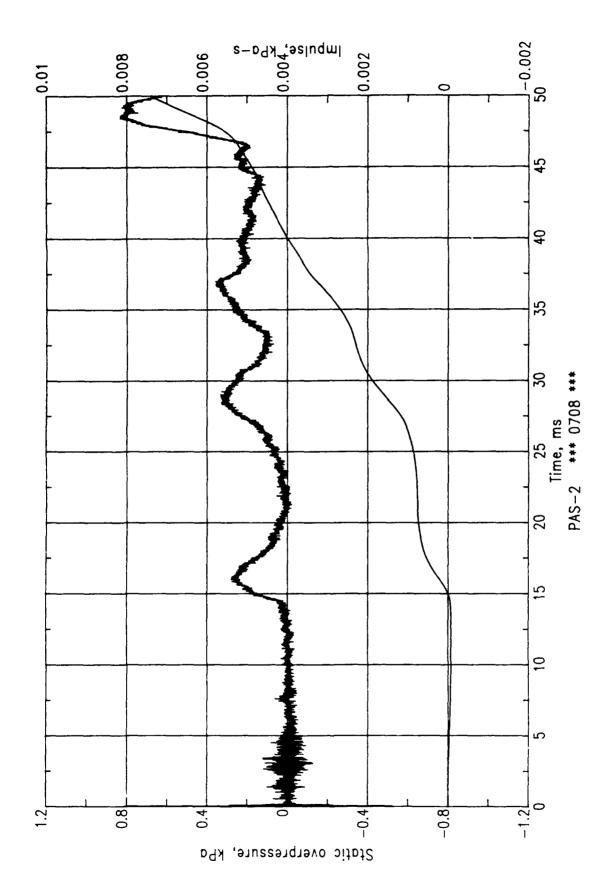


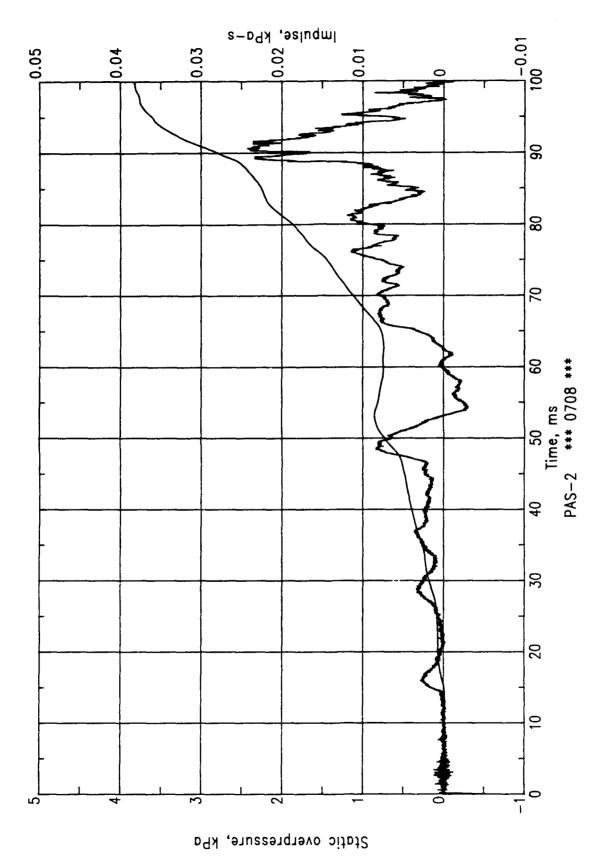




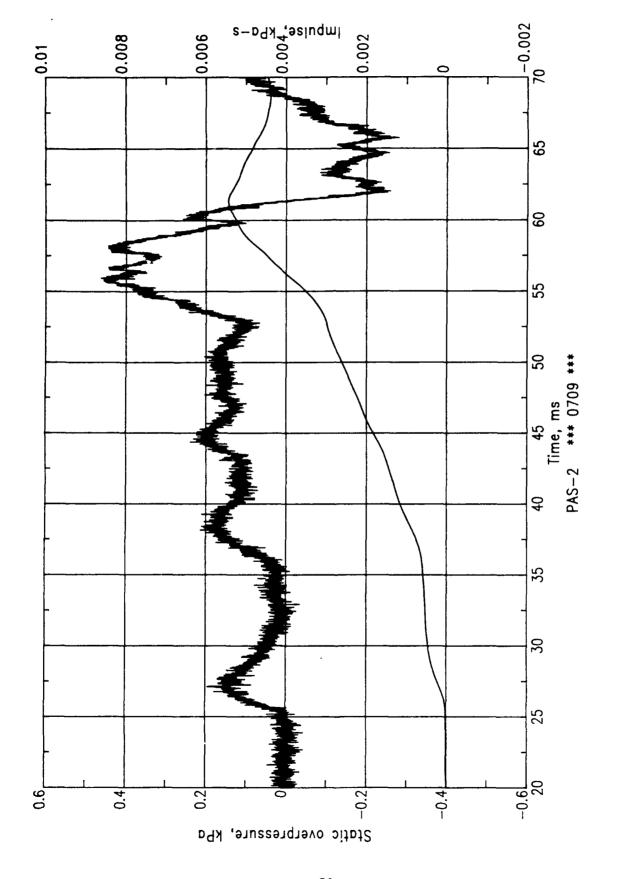




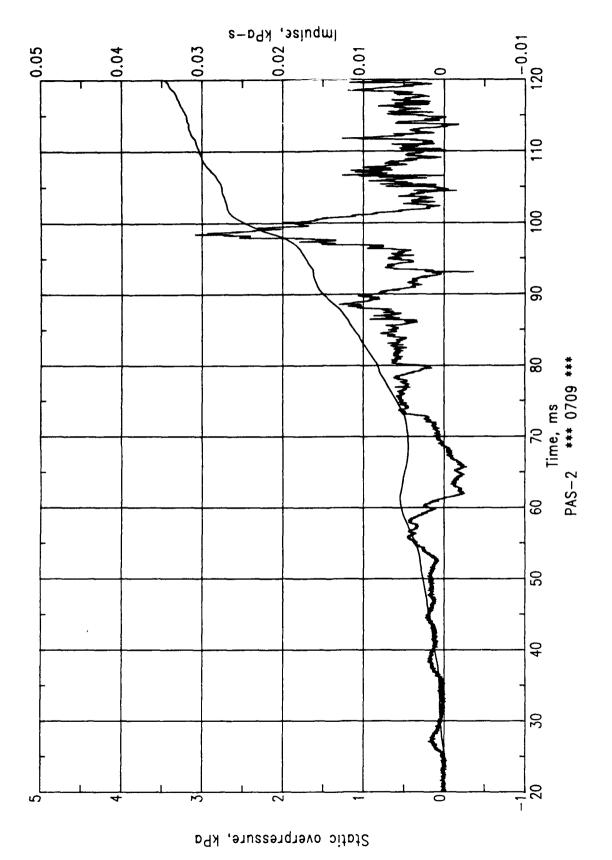


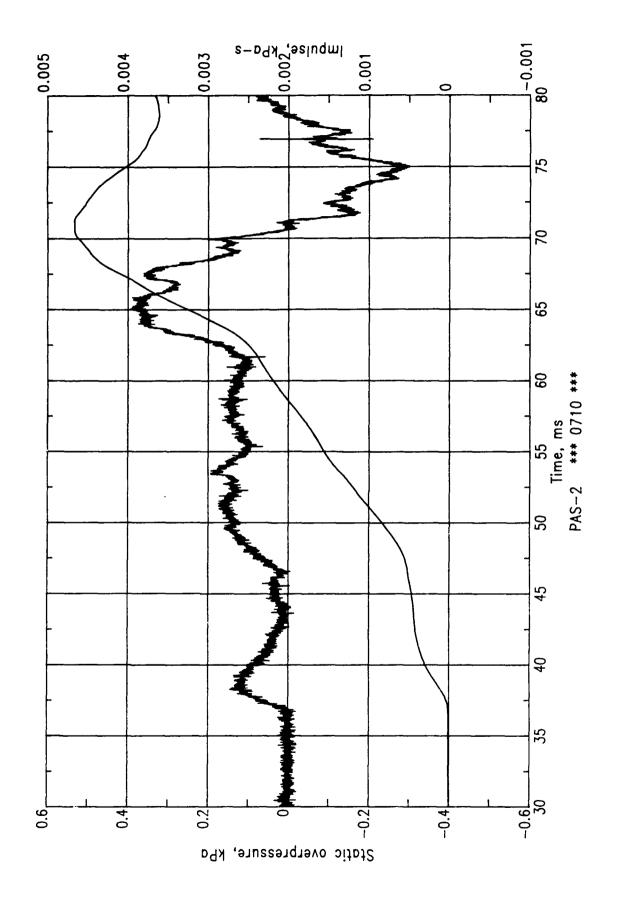




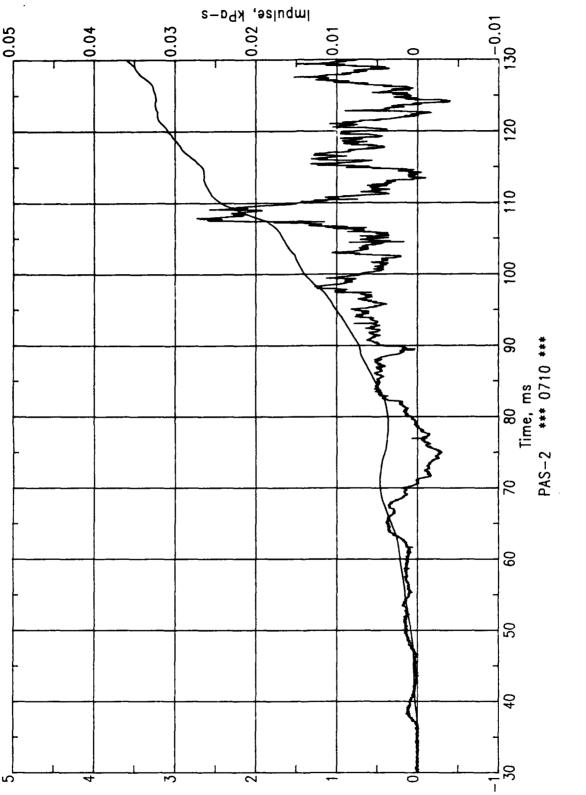


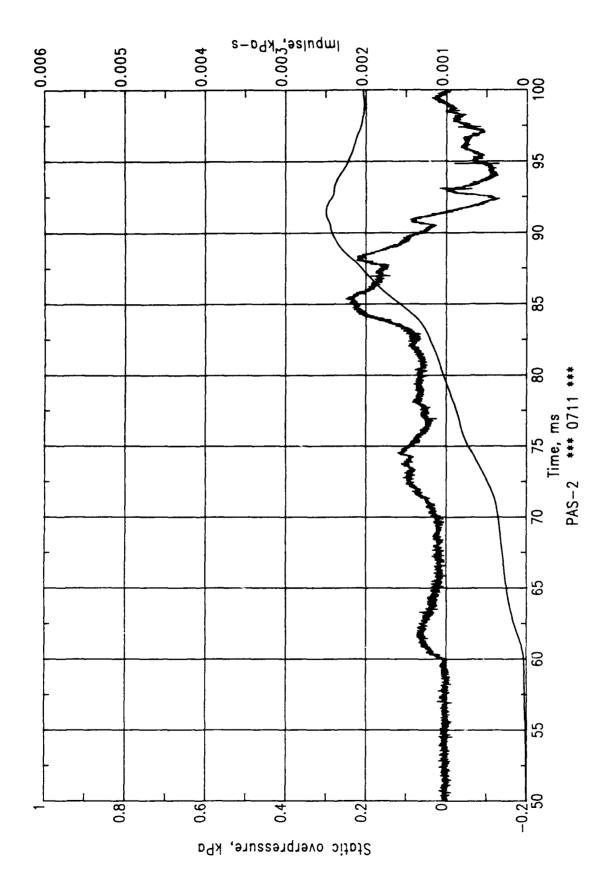


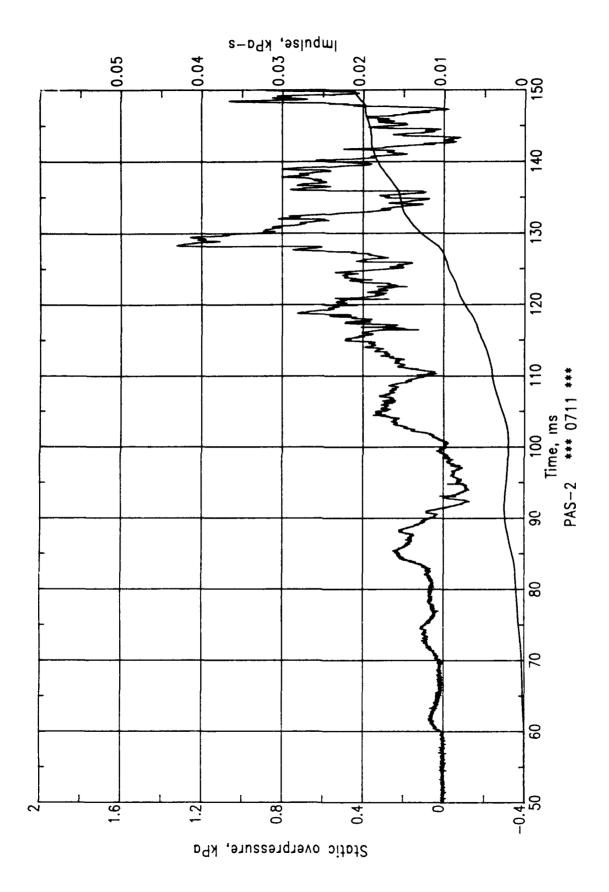


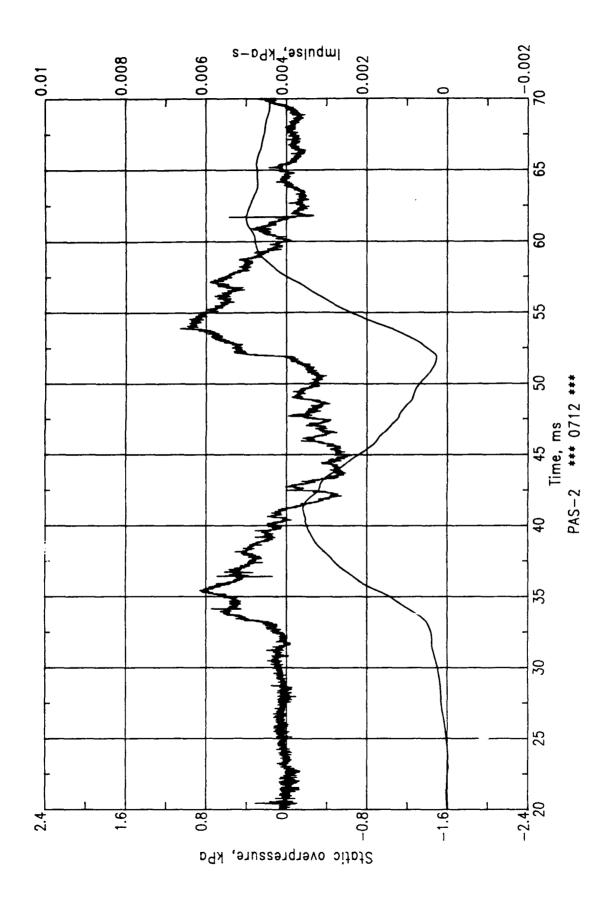


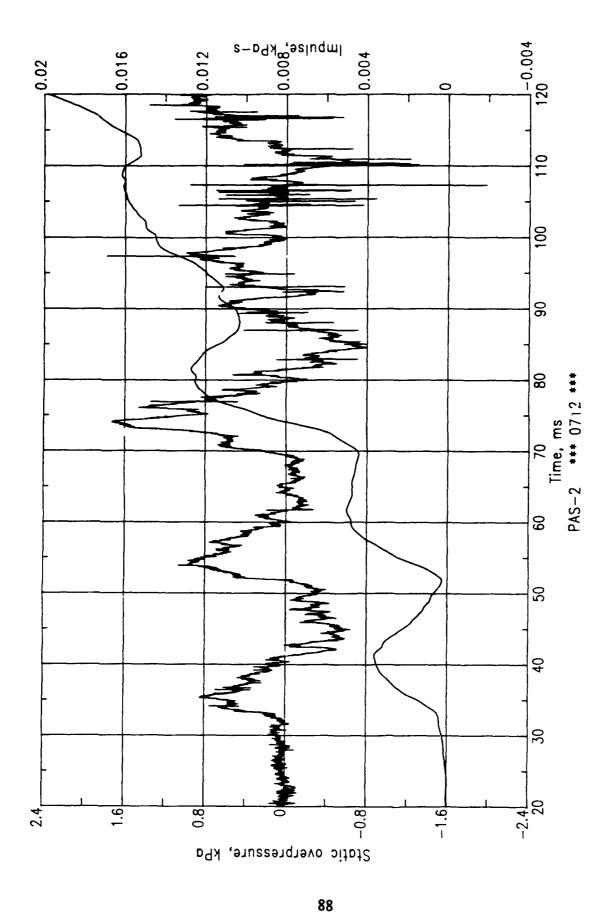


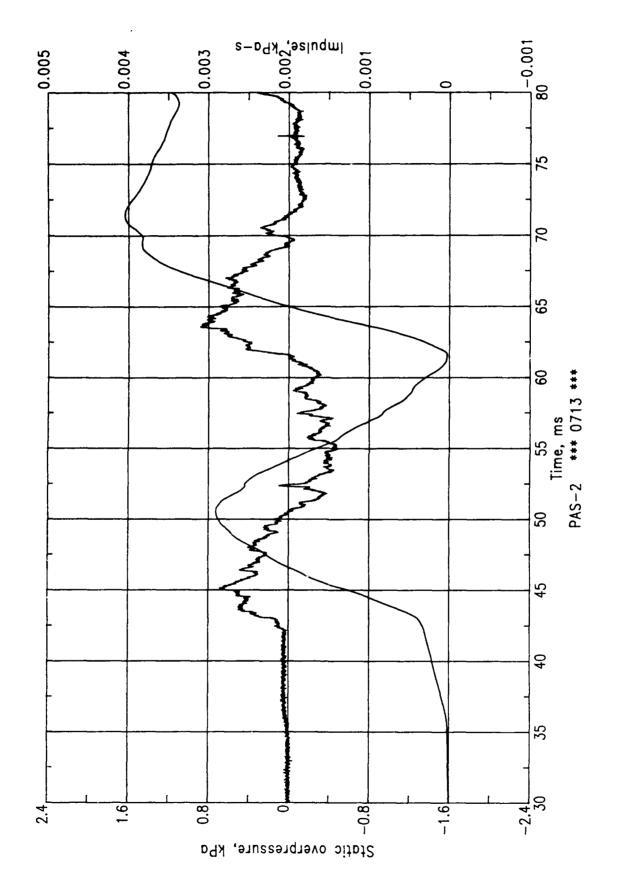


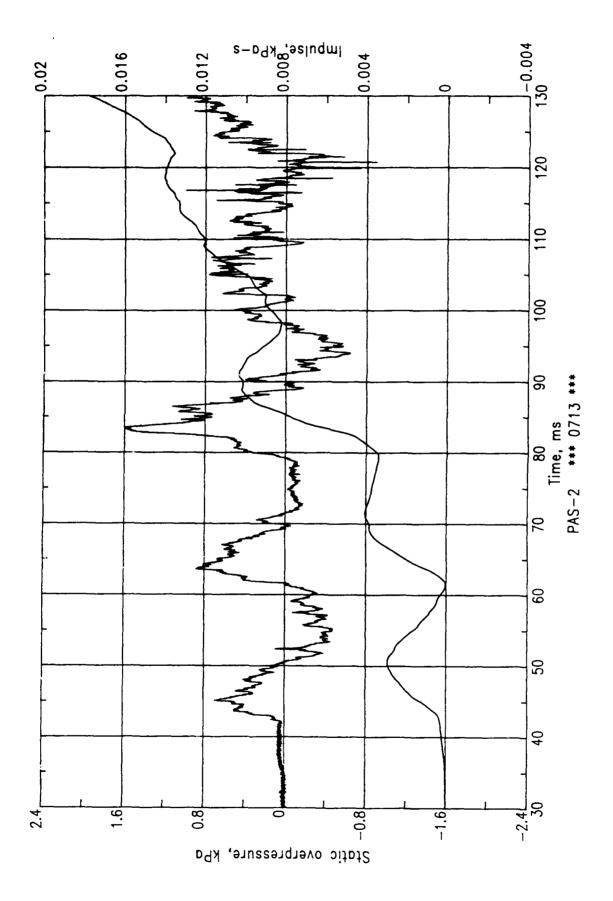


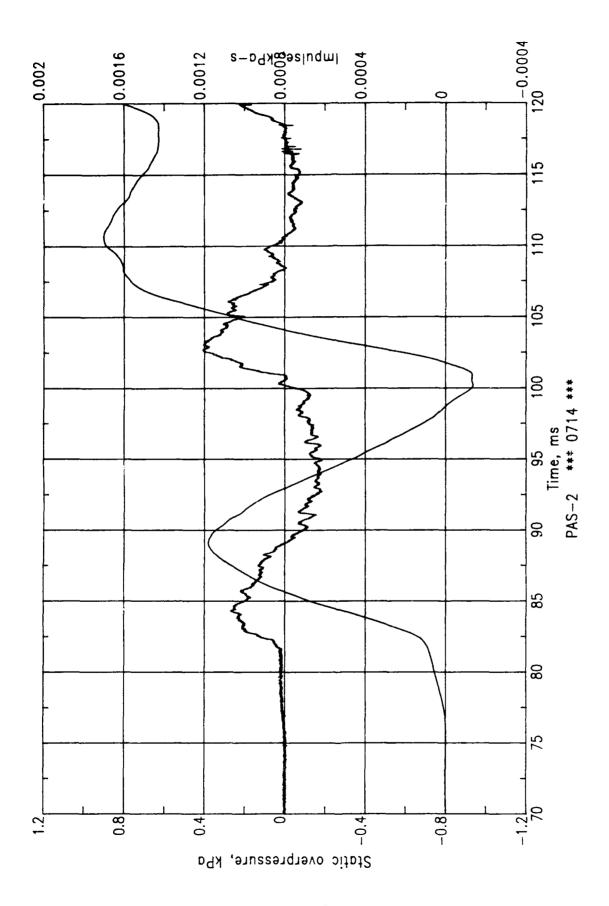


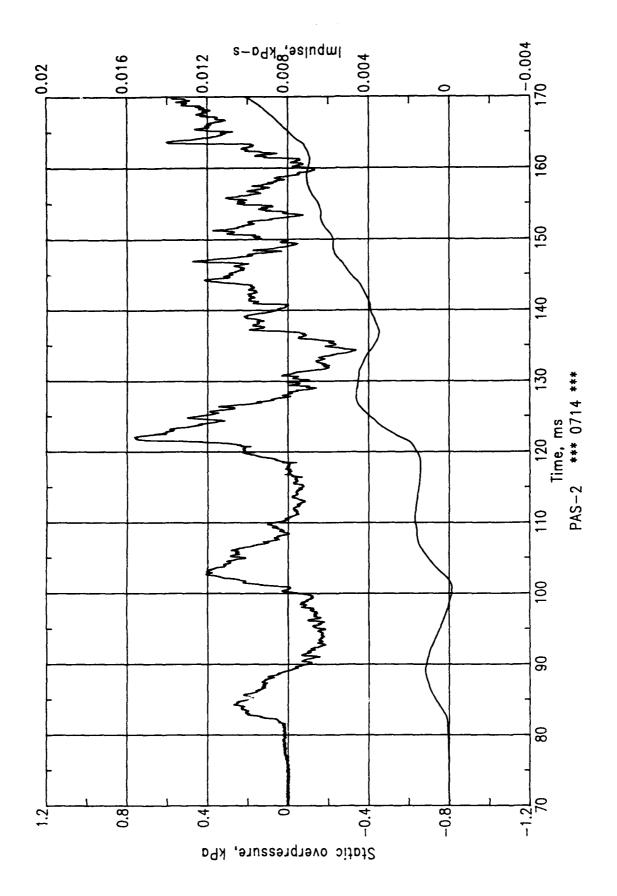


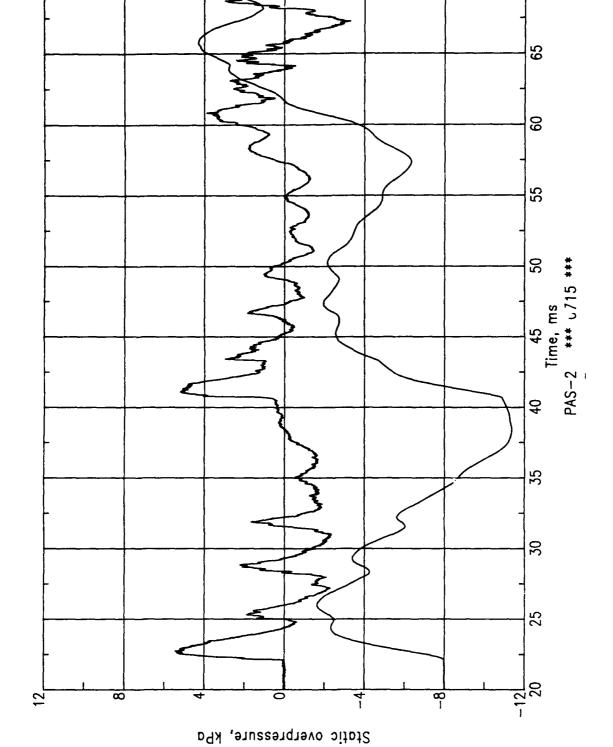




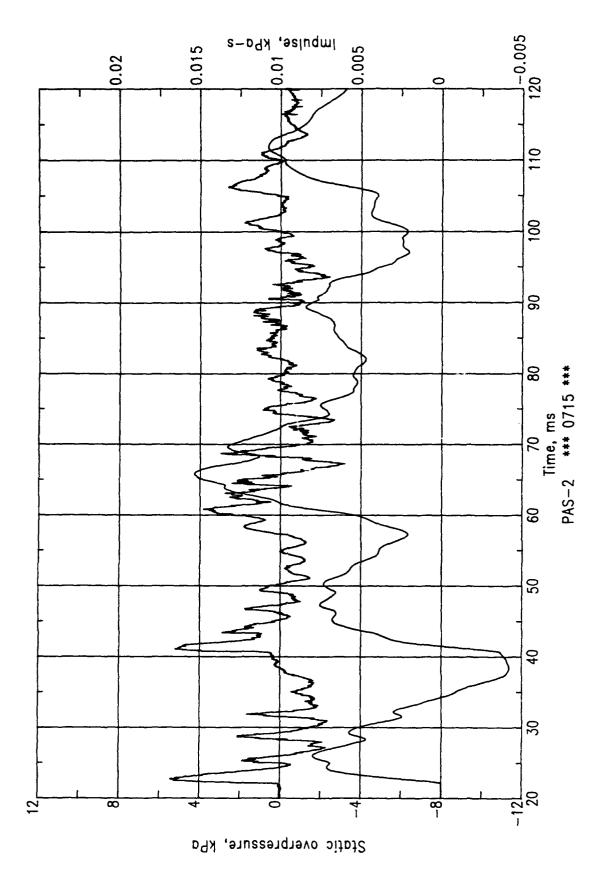




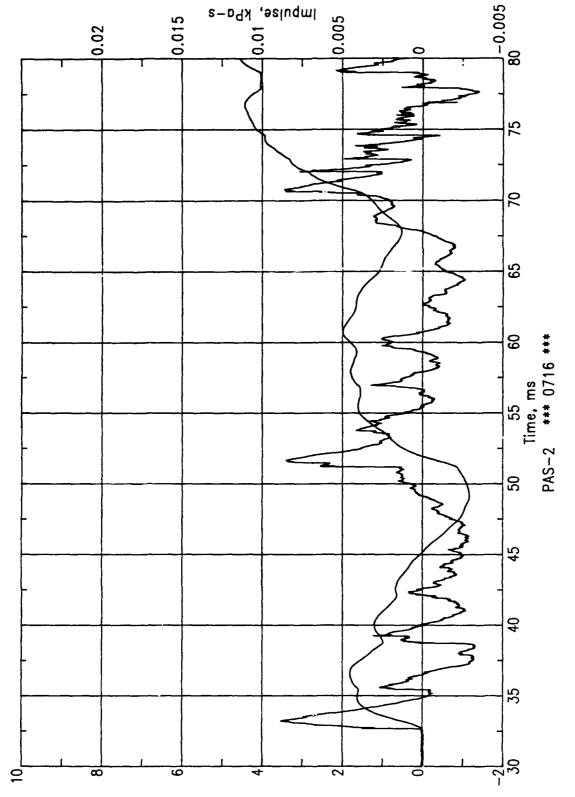




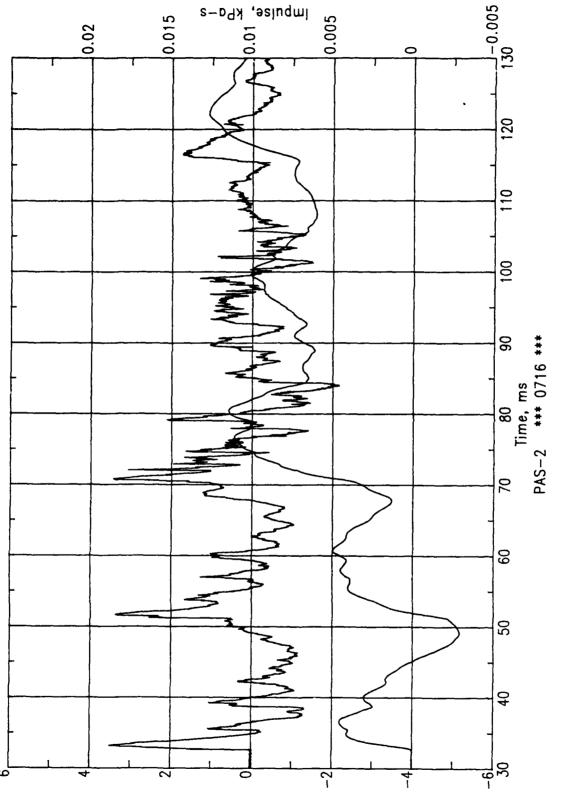
lmbnlse, kPa−s

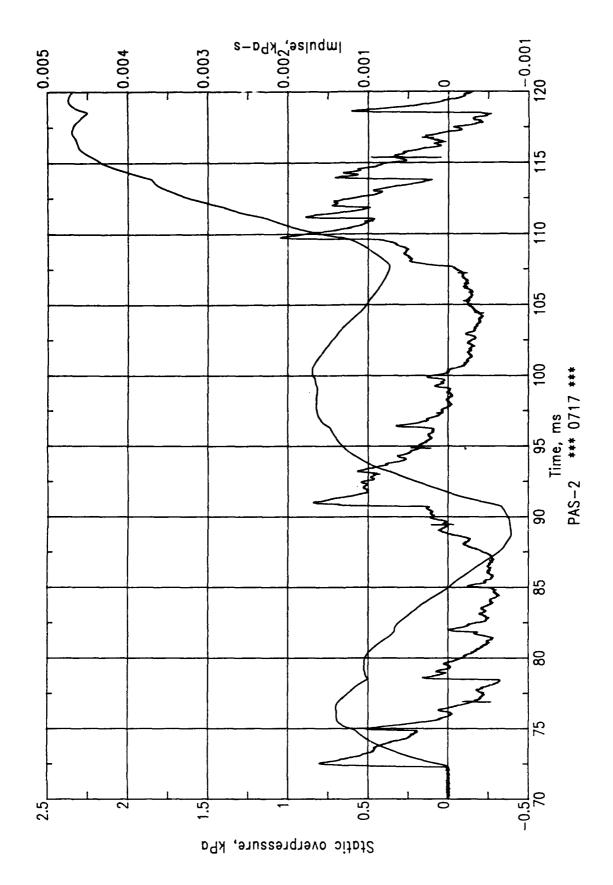


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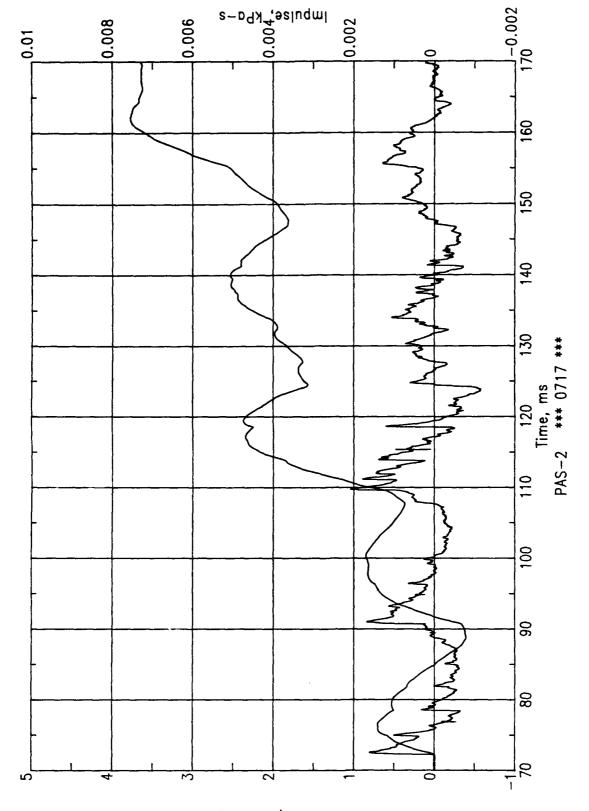


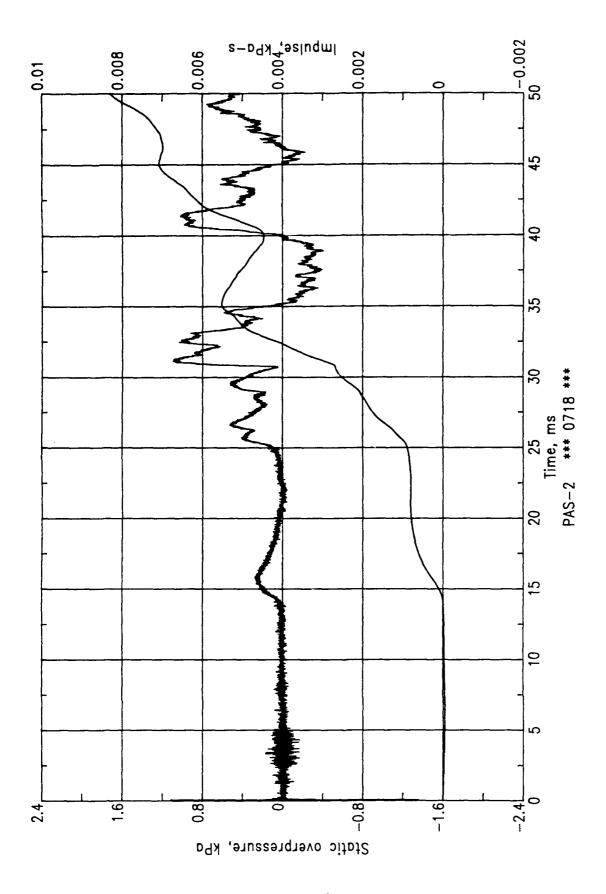
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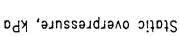


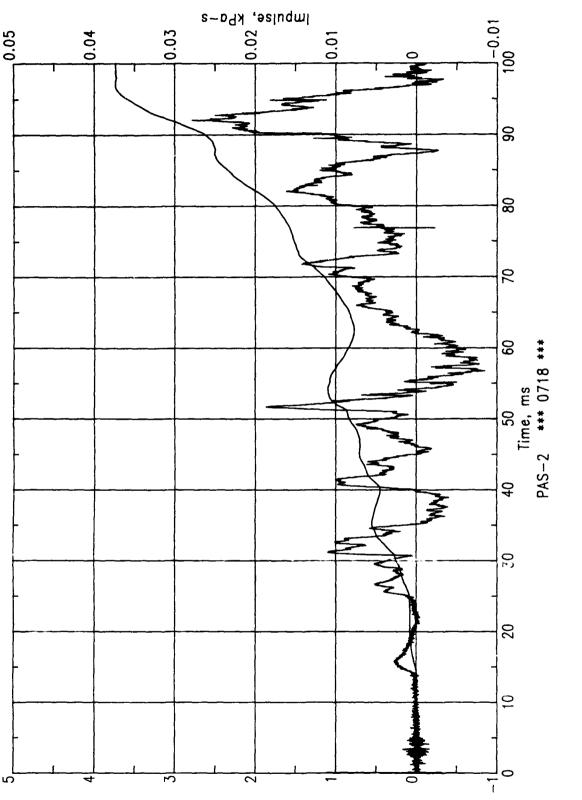


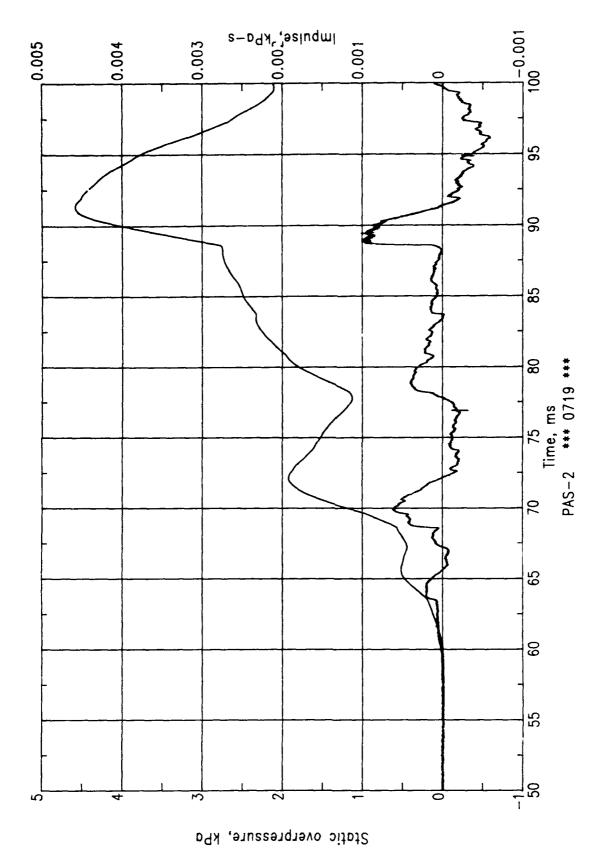
Static overpressure, kPa



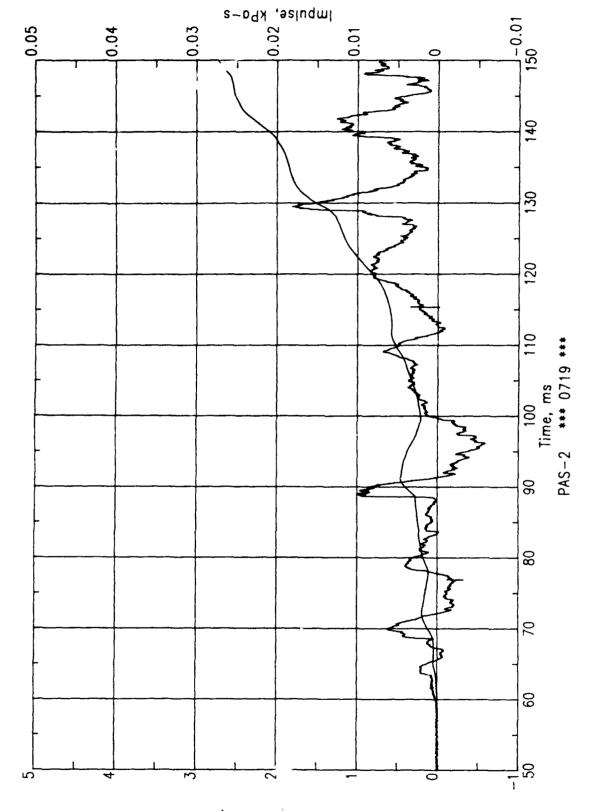


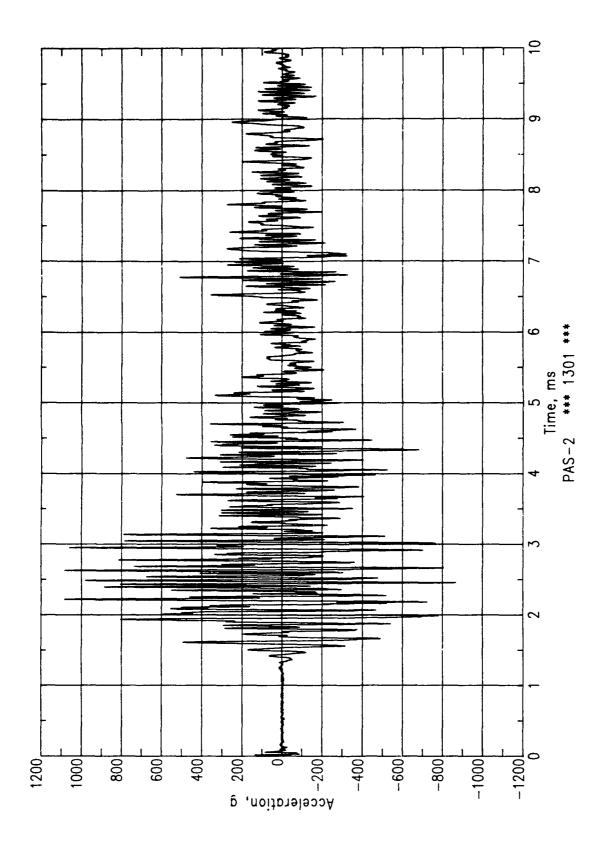


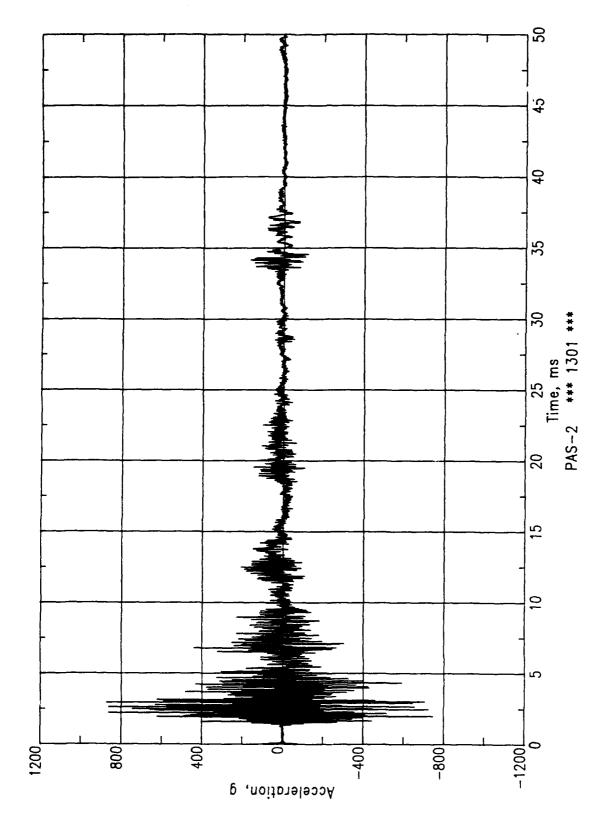


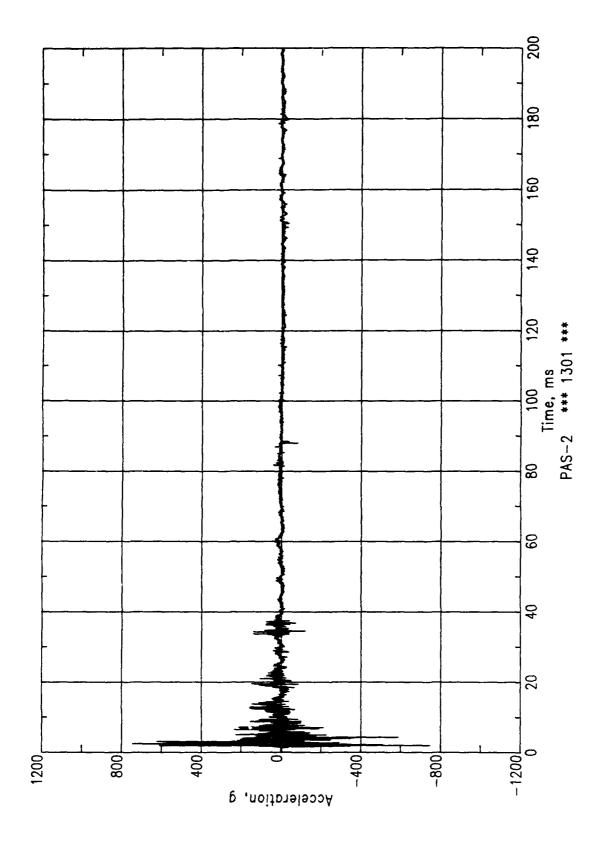


Static overpressure, kPa

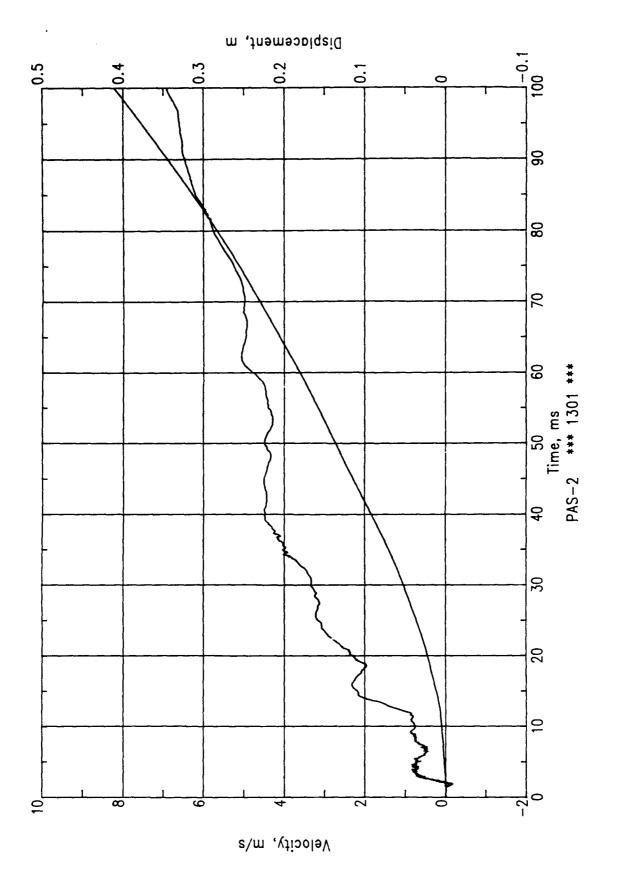


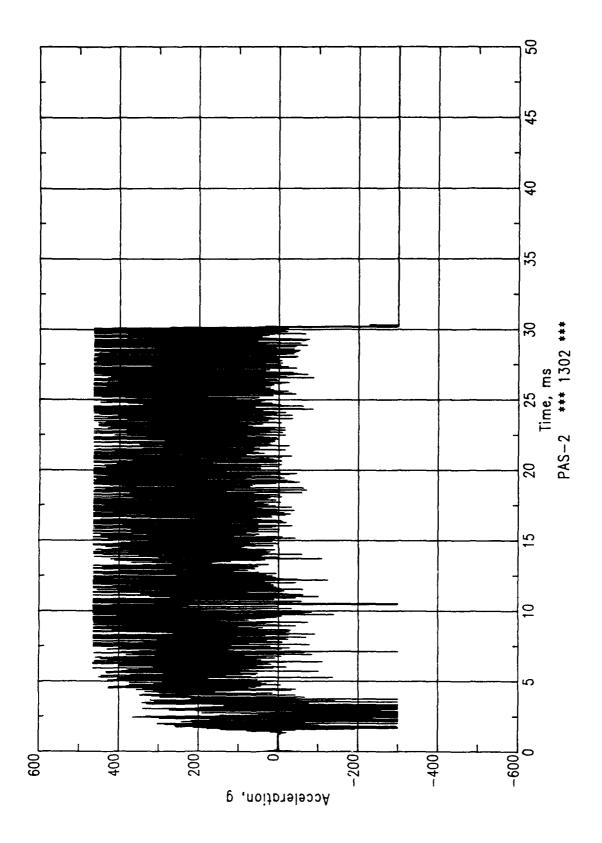


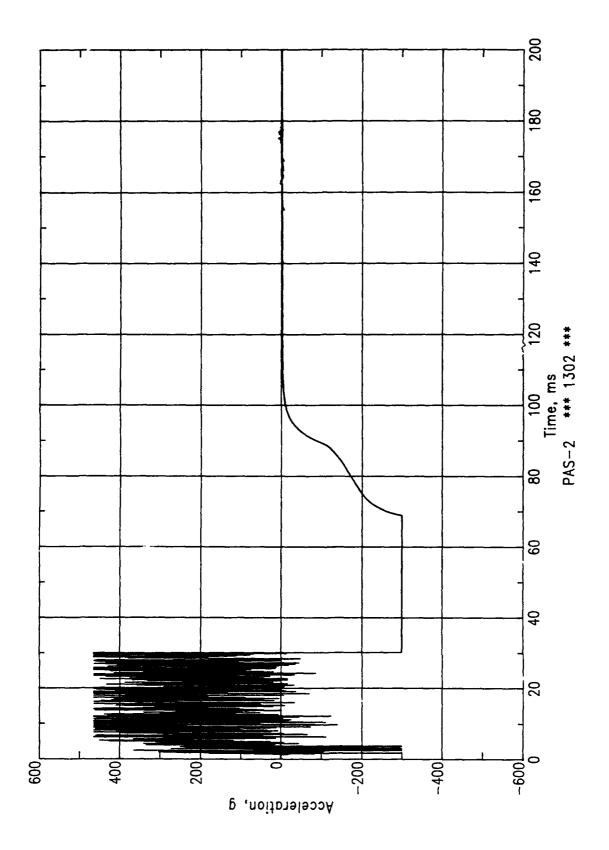


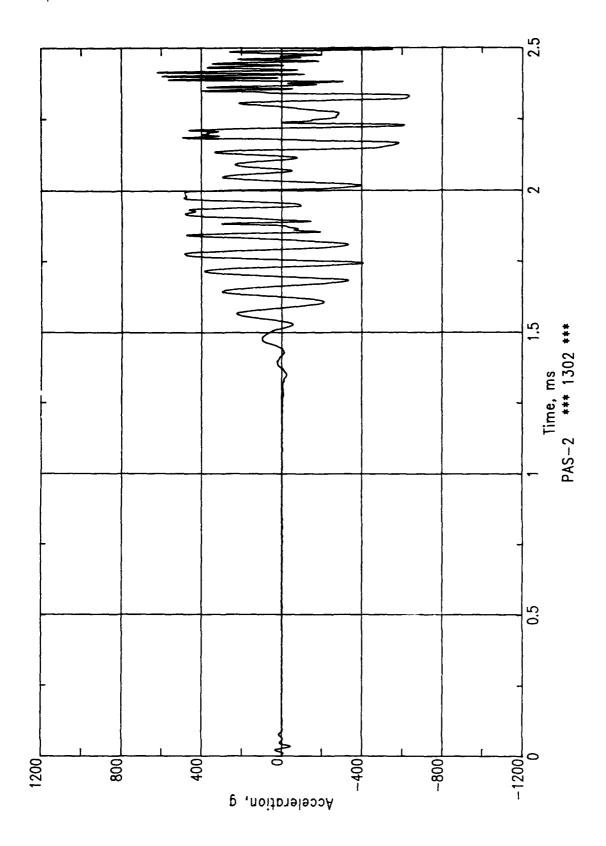




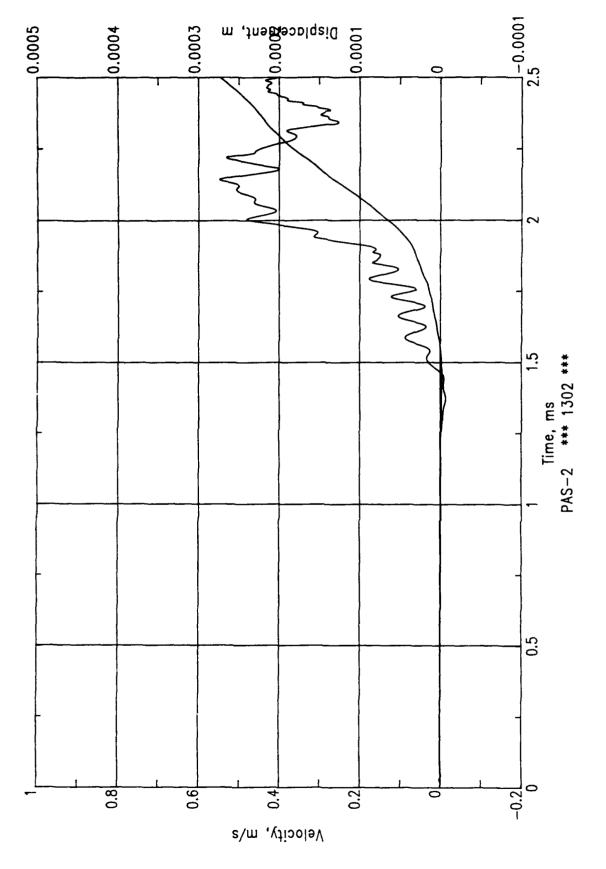




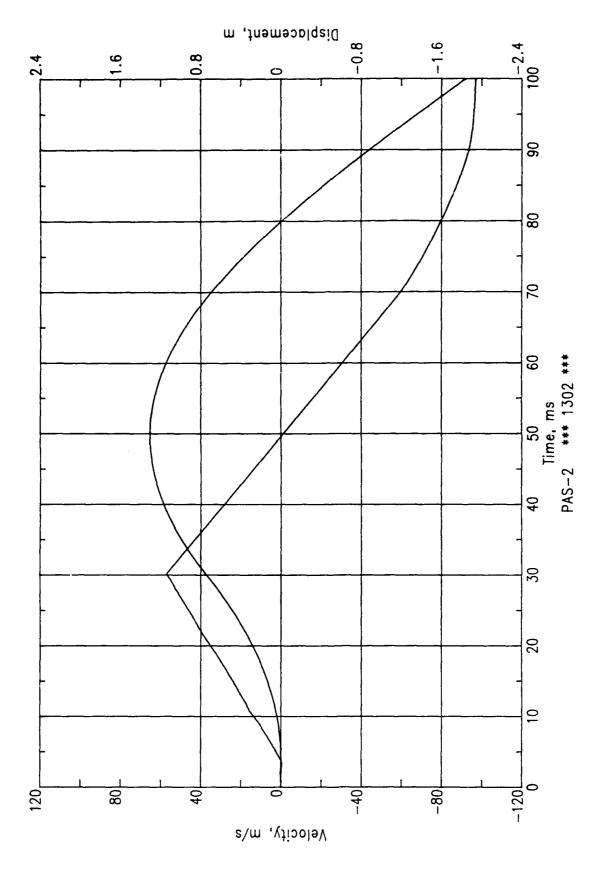


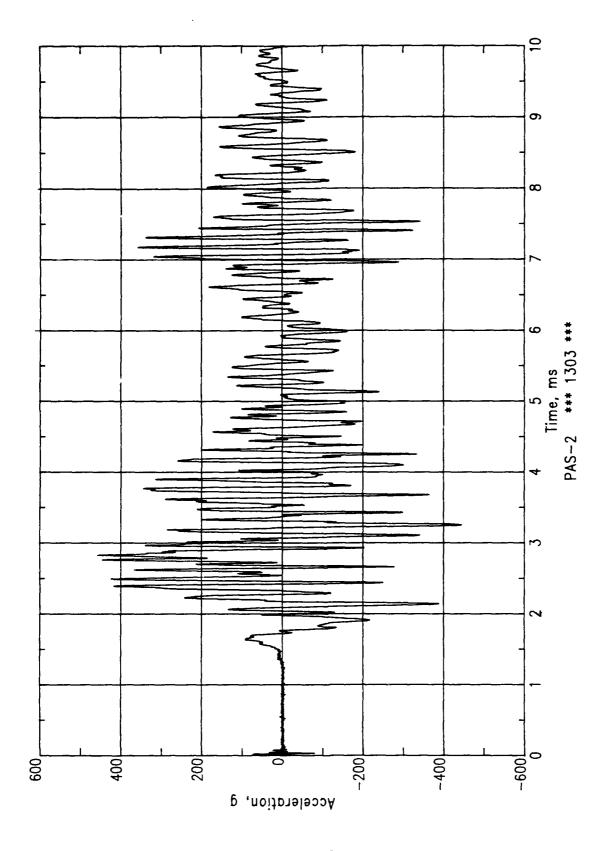


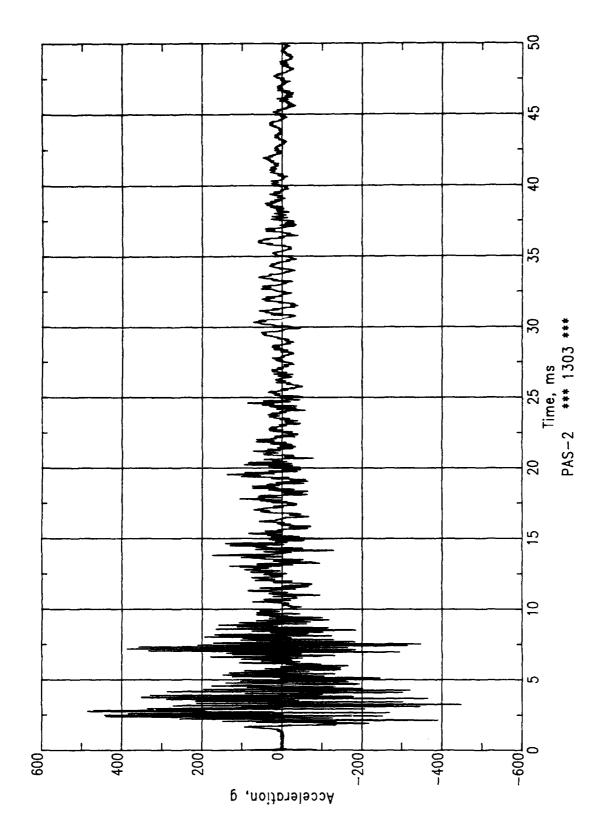


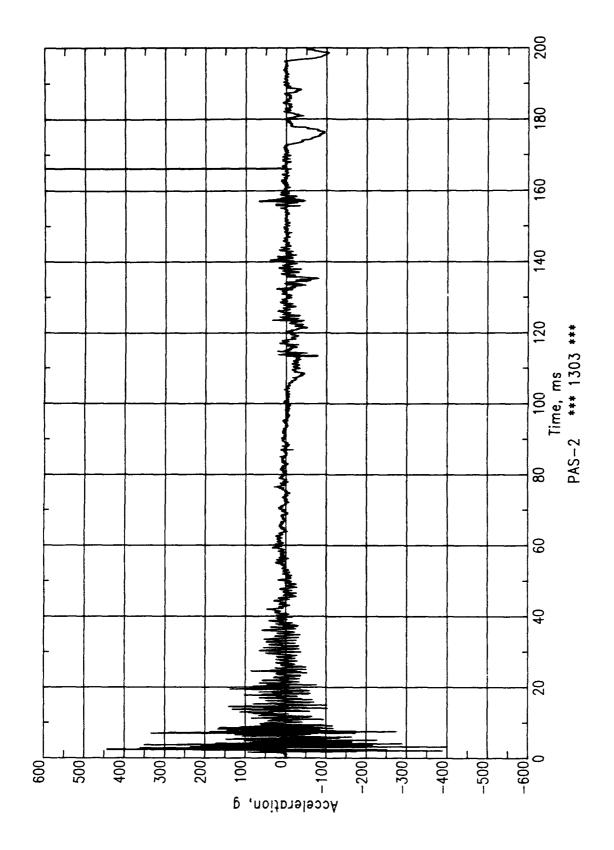


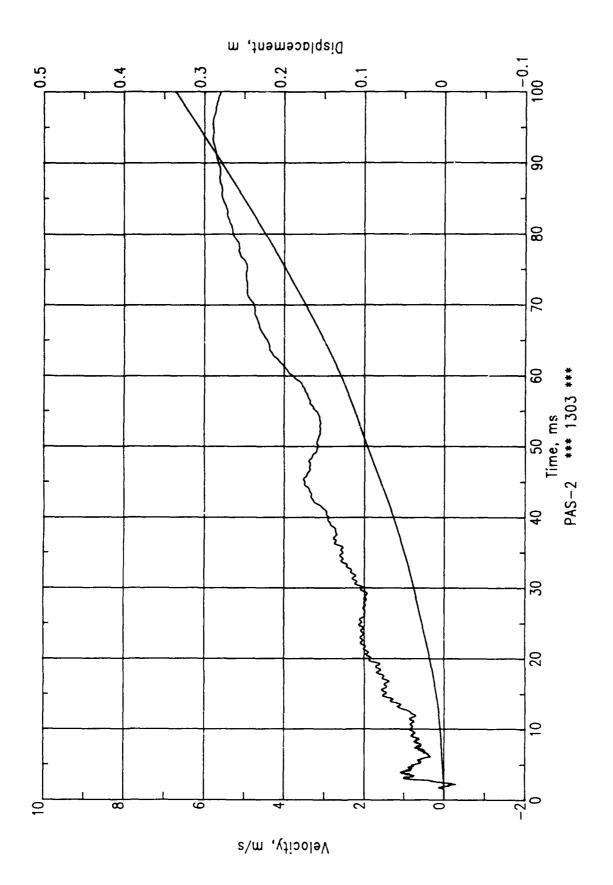


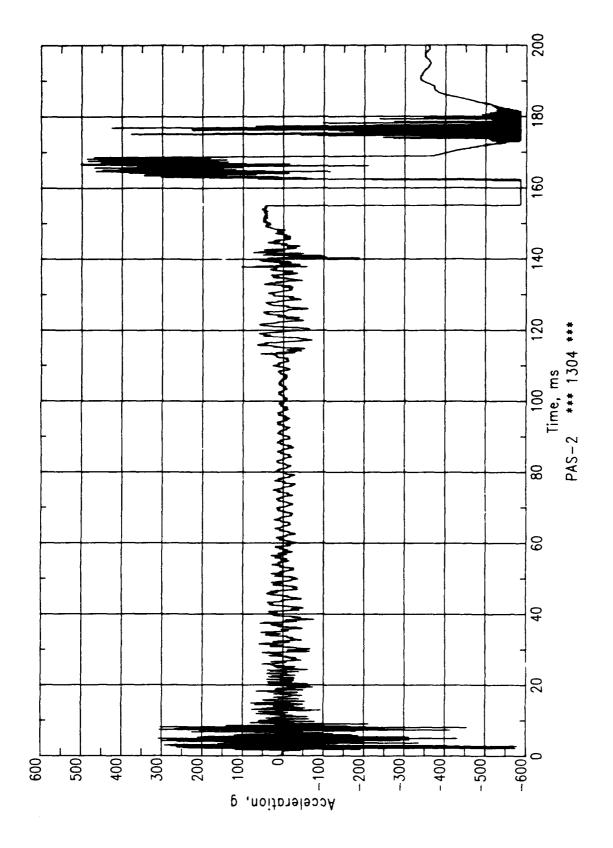


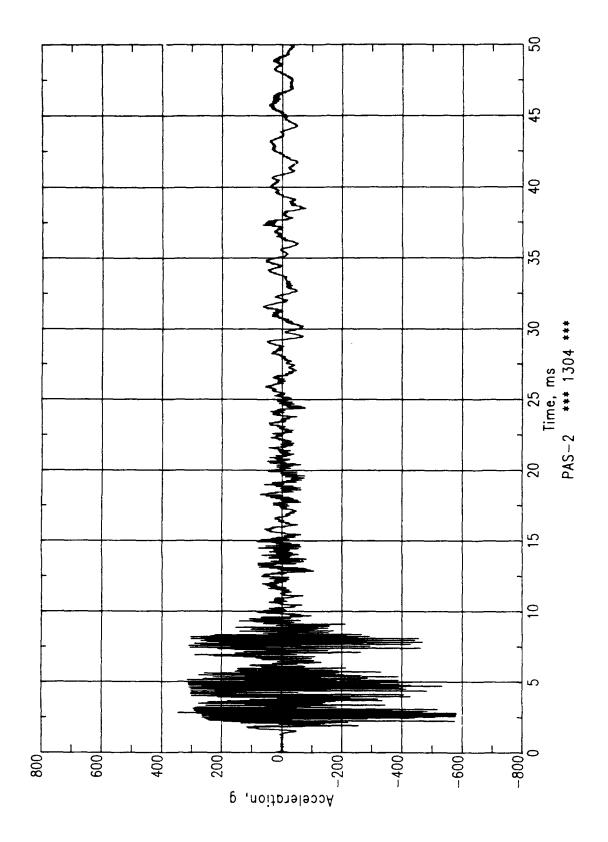


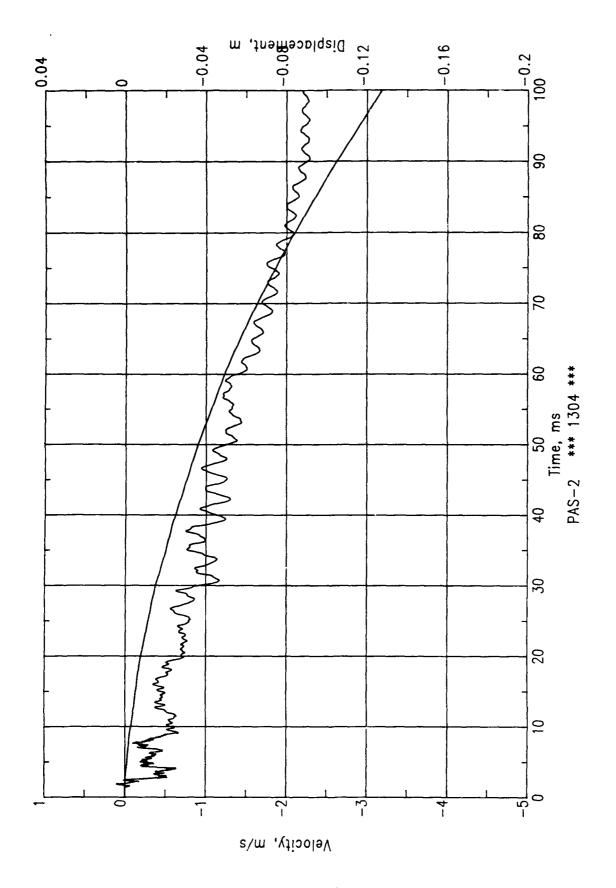


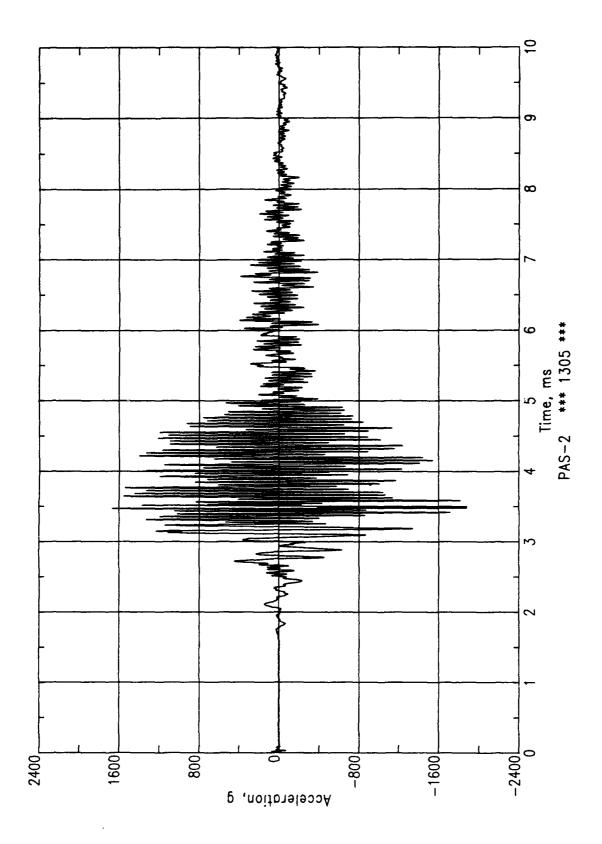


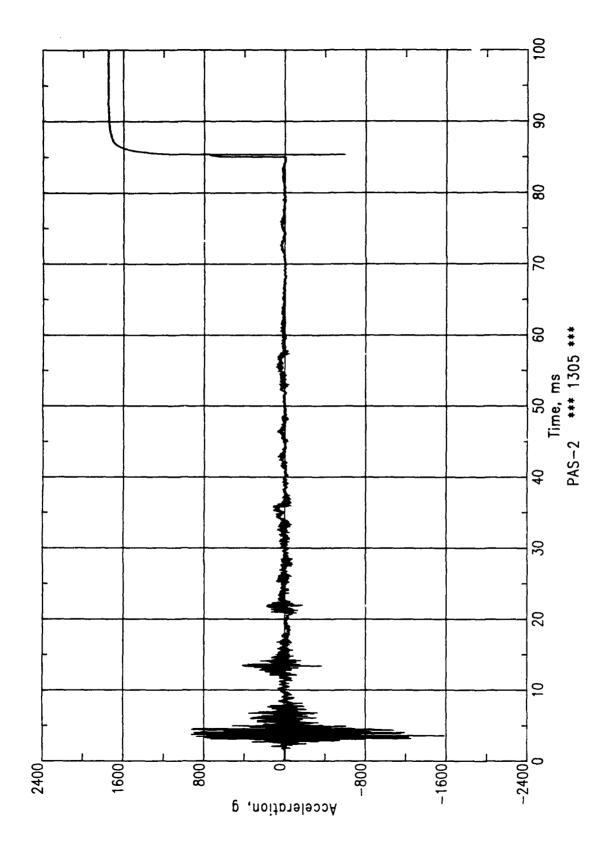


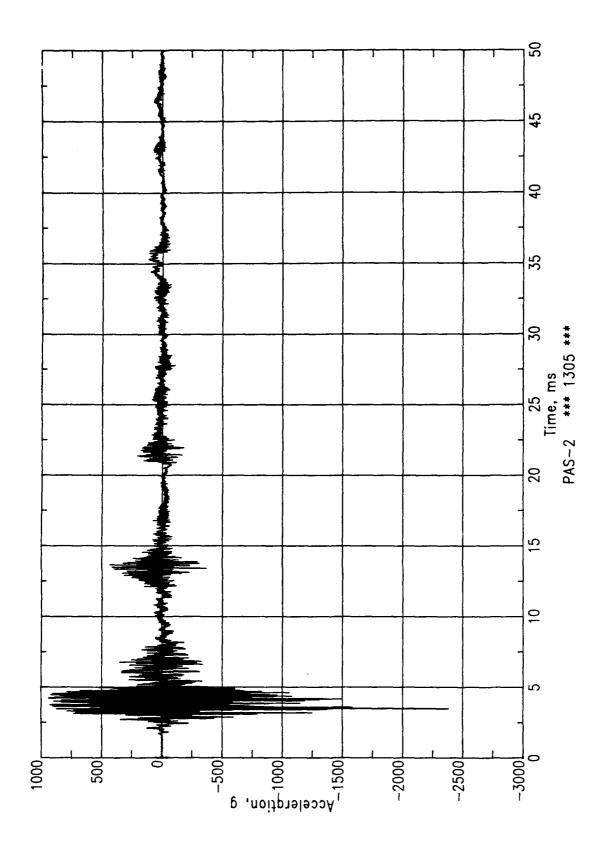


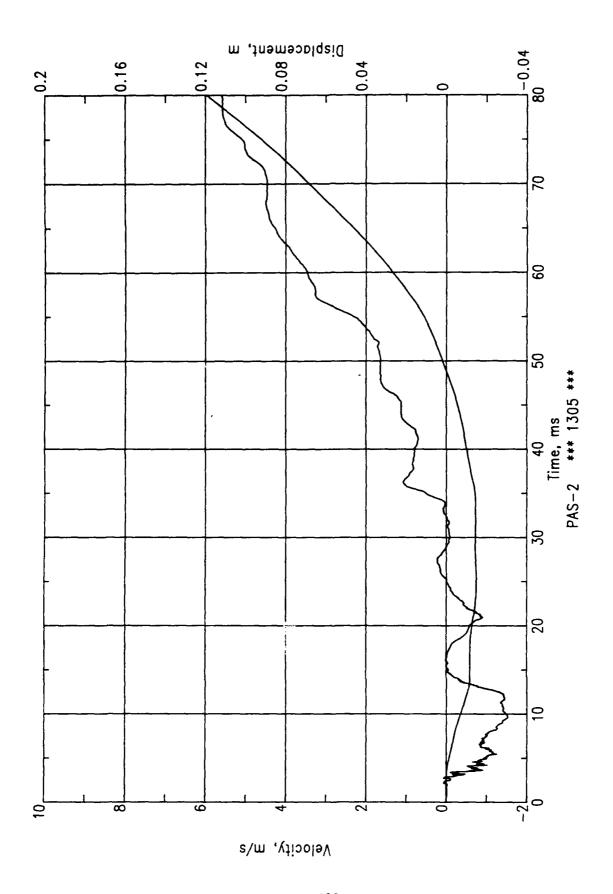


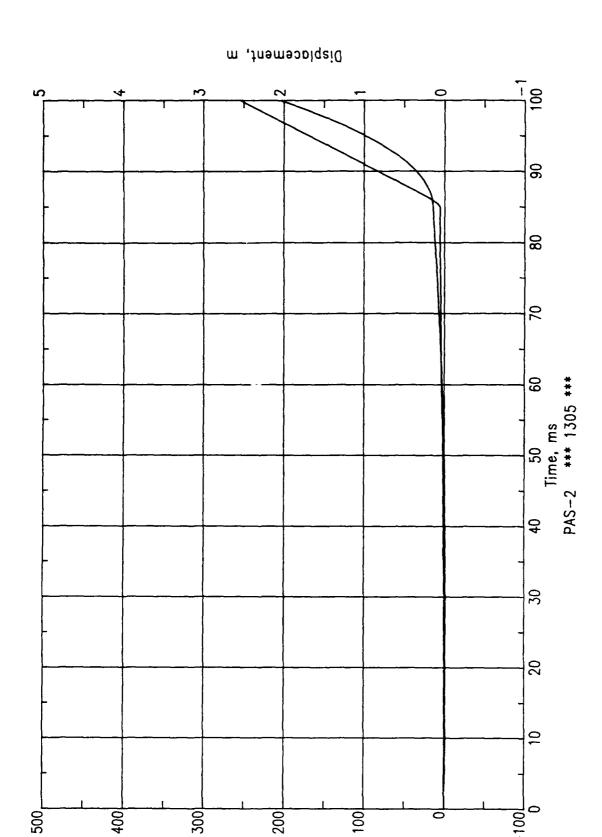












Velocity, m/s

